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FIGURE 1A

CATCATCAAT AATCTACAGT ACACTGATGG CAGCGGTCCA ACTGCCAATC ATTTTTGCCA 60
CGTCATTTAT GACGCAACGA CGGCGAGCGT GCGTGCTGA CGTAACTGTG GGGCGGAGCG 120
CGTCGCGGAG GCGGCGGCGC TGGGCGGGGC TGAGGGCGGC GGGGCGGCG CGCGGGGCGG 180
CGCGCGGGGC GGGGCGAGGG GCGGAGTTCC GCACCCGCTA CGTCATTTTC AGACATTTTT 240
TAGCAAATTT GCGCCTTTTG CAAGCATTTT TCTCACATTT CAGGTATTTA GAGGGCGGAT 300
TTTTGGTGTT CGTACTTCCG TGTCACATAG TTCACTGTCA ATCTTCATTA CGGCTTAGAC 360
AAATTTTCGG CGTCTTTTCC GGGTTTATGT CCCC GGTCAC CTTTATGACT GTGTGAAACA 420
CACCTGCCCC TTGTTTACCC TTGGTCAGTT TTTTCGTCTC CTAGGGTGGG AACATCAAGA 480
ACAAATTTGC CGAGTAATTG TGCACCTTTT TCCGCGTTAG GACTGCGTTT CACACGTAGA 540
CAGACTTTTT CTCATTTTCT CACACTCCGT CGTCCGCTTC AGAGCTCTGC GTCTTCGCTG 600
CCACCATGAA GTACCTGGTC CTCGTTCTCA ACGACGGCAT GAGTCGAATT GAAAAAGCTC 660
TCCTGTGCAG CGATGGTGAG GTGGATTTAG AGTGTCAATG GGTACTTCCC CCTTCTCCCG 720
CGCCTGTCCC CGCTTCTGTG TCACCCGTGA GGAGTCCTCC TCCTCTGTCT CCGGTGTTTC 780
CTCCGTCTCC GCCAGCCCCG CTTGTGAATC CAGAGGCGAG TTCGCTGCTG CAGCAGTATC 840
GGAGAGAGCT GTTAGAGAGG AGCCTGCTCC GAACGGCCGA AGGTCAGCAG CGTGCACTGT 900
GTCCATGTGA GCGGTTGCCC GTGGAAGAGG ATGAGTGTCT GAATGCCGTA AATTTGCTGT 960
TTCTGATCC CTGGCTAAAT GCAGCTGAAA ATGGGGGTGA TATTTTAAAG TCTCCGGCTA 1020
TGCTCCAGA ACCGTGGATA GATTTGTCTA GCTACGATAG CGATGTAGAA GAGGTGACTA 1080
GTCATTTTTT TCTGGATTGC CCTGAAGAAC CCAGTCGGGA GTGTTCTCT TGTGGGTTTC 1140
ATCAGGCTCA AAGCGGAATT CCAGGCATTA TGTGCAGTTT GTGCTACATG CGCCAAACCT 1200
ACCATTGCAT CTATAGTAAG TACATTCTGT AAAAGAACAT CTTGGTGATT TCTAGGTATT 1260
GTTTAGGGAT TAACTGGGTG GAGTGATCTT AATCCGGCAT AACCAATAC ATGTTTTTAC 1320
AGGTCCAGTT TCTGAAGAGG AAATGTGAGT CATGTTGACT TTGGGCGCA AGAGGAAATG 1380
TGAGTCATGT TGACTTTGGC GCGCCCTACG GTGACTTTAA AGCAATTTGA GGATCACTTT 1440
TTTGTTAGTC GCTATAAAGT AGTCACGGAG TCTTCATGGA TCACTTAAGC GTTCTTTTGG 1500
ATTTGAAGCT GCTTCGCTCT ATOGTAGCGG GGGCTTCAA TCGCACTGGA GTGTGGAAGA 1560
GGCGGCTGTG GCTGGGACGC CTGACTCAAC TGGTCCATGA TACCTGCGTA GAGAACGAGA 1620
GCATATTTCT CAATTCTCTG CCAGGGAATG AAGCTTTTTT AAGGTTGCTT CGGAGCGGCT 1680
ATTTTGAAGT GTTTGACGTG TTTGTGGTGC CTGAGCTGCA TCTGGACACT CCGGGTOGAG 1740
TGGTCGCGC TCTTGCTCTG CTGGTGTTCA TCTCAACGA TTTAGACGCT AATTCTGCTT 1800
CTTCAGGCTT TGATTCAGGT TTTCTCGTGG ACCGTCTCTG CGTGCCGCTA TGGCTGAAGG 1860

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FIGURE 1B

CCAGGGCGTT	CAAGATCACC	CAGAGCTCCA	GGAGCACTTC	GCAGCCTTCC	TCGTCGCCCCG	1920
ACAAGACGAC	CCAGACTACC	AGCCAGTAGA	CGGGGACAGC	CCACCCCGGG	CTAGCCTGGA	1980
GGAGGCTGAA	CAGAGCAGCA	CTCGTTTCGA	GCACATCAGT	TACCGAGACG	TGGTGGATGA	2040
CTTCAATAGA	TGCCATGATG	TTTTTTATGA	GAGGTACAGT	TTTGAGGACA	TAAAGAGCTA	2100
CGAGGCTTTG	CCTGAGGACA	ATTTGGAGCA	GCTCATAGCT	ATGCATGCTA	AAATCAAGCT	2160
GCTGCCCCGT	CGGGAGTATG	AGTTGACTCA	ACCTTTGAAC	ATAACATCTT	GCGCCTATGT	2220
GCTCGGAAAT	GGGGCTACTA	TTAGGGTAAC	AGGGGAAGCC	TCCCCGGCTA	TTAGAGTGGG	2280
GGCCATGGCC	GTGGGTCCGT	GTGTAACAGG	AATGACTGGG	GTGACTTTTG	TGAATTGTAG	2340
GTTTGAGAGA	GAGTCAACAA	TTAGGGGGTC	CCTGATACGA	GCTTCAACTC	ACGTGCTGTT	2400
TCATGGCTGT	TATTTTATGG	GAATTATGGG	CACTTGTATT	GAGGTGGGGG	CGGGAGCTTA	2460
CATTCGGGGT	TGTGAGTTTG	TGGGCTGTTA	CCGGGGAATC	TGTTCTACTT	CTAACAGAGA	2520
TATTAAGGTG	AGGCAGTGCA	ACTTTGACAA	ATGCTTACTG	GGTATTACTT	GTAAGGGGGA	2580
CTATCGTCTT	TCGGGAAATG	TGTGTTCTGA	GACTTTCTGC	TTTGCTCATT	TAGAGGGAGA	2640
GGGTTTGGTT	AAAAACAACA	CAGTCAAGTC	CCCTAGTCGC	TGGACCAGCG	AGTCTGGCTT	2700
TTCCATGATA	ACTTGTGCAG	ACGGCAGGGT	TACGCCTTTG	GGTTCCCTCC	ACATTGTGGG	2760
CAACCGTTGT	AGGCGTTGGC	CAACCATGCA	GGGGAATGTG	TTTATCATGT	CTAAACTGTA	2820
TCTGGGCAAC	AGAATAGGGA	CTGTAGCOCT	GCCCCAGTGT	GCTTTCTACA	AGTCCAGCAT	2880
TTGTTTGGAG	GAGAGGGGGA	CAAACAAGCT	GGTCTTGGCT	TGTGCTTTTG	AGAATAATGT	2940
ACTGGTGTAC	AAAGTGCTGA	GACGGGAGAG	TCCCTCAACC	GTGAAAATGT	GTGTTTGTGG	3000
GACTTCTCAT	TATGCAAAGC	CTTTGACACT	GGCAATTATT	TCTTCAGATA	TTGGGGCTAA	3060
TCGATACATG	TACACTGTGG	ACTCAACAGA	GTTCACTTCT	GACGAGGATT	AAAAGTGGGC	3120
GGGGCCAAGA	GGGGTATAAA	TAGGTGGGGA	GGTTGAGGGG	AGCCGTAGTT	TCTGTTTTTC	3180
CCAGACTGGG	GGGGACAACA	TGGCCGAGGA	AGGGGCGCATT	TATGTGCOCT	ATGTAACATG	3240
COGCCTGCCC	AAGTGGTCGG	GTTCCGGTGCA	GGATAAGACG	GGCTCGAACA	TGTTGGGGGG	3300
TGTGGTACTC	CCTCCTAATT	CACAGGCGCA	CCGGACGGAG	ACCGTGGGCA	CTGAGGCCAC	3360
CAGAGACAAC	CTGCACGCCG	AGGGAGCGCG	TCGTCTGAG	GATCAGACGC	CCTACATGAT	3420
CTTGGTGGAG	GACTCTCTGG	GAGGTTTGAA	GAGGCGAATG	GACTTGCTGG	AAGAATCTAA	3480
TCAGCAGCTG	CTGGCAACTC	TCAACCGTCT	CCGTACAGGA	CTCGCTGCOCT	ATGTGCAGGC	3540
TAACCTTGTG	GGCGGCCAAG	TTAACCCCTT	TGTTTAAATA	AAAATACACT	CATACAGTTT	3600
ATTATGCTGT	CAATAAAATT	CTTTATTTTT	CCTGTGATAA	TACCGTGTCC	AGCGTGCTCT	3660

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FIGURE 1C

GTCAATAAGG	GTCCTATGCA	TCCTGAGAAG	GGCCTCATAT	ACCATGGCAT	GAATATTAAG	3720
ATACATGGGC	ATAAGGCCCT	CAGAAGGGTT	GAGGTAGAGC	CACTGCAGAC	TTTCGTGGGG	3780
AGGTAAGGTG	TTGTAAATAA	TCCAGTCATA	CTGACTGTGC	TGGGCGTGGA	AGGAAAAGAT	3840
GTCTTTTAGA	AGAAGGGTGA	TTGGCAAAGG	GAGGCTCTTA	GTGTAGGTAT	TGATAAATCT	3900
GTTCAGTTGG	GAGGGATGCA	TTCGGGGGCT	AATAAGGTGG	AGTTTAGCCT	GAATCTTAAG	3960
GTTGGCAATG	TTGCCCCCTA	GGTCTTTGCG	AGGATTCATG	TTGTGCAGTA	CCACAAAAAC	4020
AGAGTAGCCT	GTGCATTTGG	GGAATTTATC	ATGAAGCTTG	GAGGGGAAGG	CATGAAAAAA	4080
TTTTGAGATG	GCTTTATGGC	GCCCCAGGTC	TTCCATGCAT	TCGTCCATAA	TAATAGCAAT	4140
AGGCCCCGTT	TTGGCTGCCT	GGGCAAACAC	GTTCTGAGGG	TGGGCGACAT	CATAGTTGTA	4200
GTCCATGGTC	AGGTCTTCAT	AGGACATGAT	CTTAAAGGCA	GGTTTTAGGG	TGCTGCTTTG	4260
AGGAACCAGA	GTTCTGTGG	GGCCGGGGGT	GTAGTTCCT	TCACAGATT	GGGTCTCCCA	4320
AGCAAGCAGT	TCTTGCGGGG	GTATCATGTC	AACTTGGGGG	ACTATAAAAA	AAACAGTTTC	4380
GGGAGGTGGT	TGAATGAGGC	CCGTAGACAT	AAGGTTTCTG	AGGAGCTGGG	ATTTTCCACA	4440
ACCGTTGGT	CCGTAGACCA	CCCCAATAAC	GGGTTGCATG	GTAAAGTTTA	AAGATTGCA	4500
TGAACCGTCA	GGGCGCAGAT	ATGGCATGGT	GGCATTTCATG	GCATCTCTTA	TCGOCTGATT	4560
ATAGTCTGAG	AGGGCATTGA	GTAGGGTGGC	GCCCCCATA	GCCAGTAGCT	CGTCCAAGGA	4620
AGAAAAGTGT	CTAAGAGGTT	TGAGGCCTTC	AGCCATGGGC	ATGGACTCTA	AGCACTGTTG	4680
CATGAGAGCA	CATTTGTCCC	AAAGCTCAGA	GACGTGGTCT	AGTACATCTC	CATCCAGCAT	4740
AGCTCTTTGT	TTCTTGGGTT	GGGGTGGCTG	TTGCTGTAGG	GGGCGAGACG	GTGACGGTCC	4800
ATGGCCCGCA	GGGTGCGGTC	TTTCCAGGGC	CTGAGCGTCC	TOGCCAGGGT	CGTCTCGGTG	4860
ACOGTGAAGG	GCTGCTGATG	CGTCTGTCTG	CTGACCAGCG	AGCGOCTCAG	GCTGAGOCTG	4920
CTGGTGCCGA	ACTTTTCGTC	GCCTAGCTGT	TCAGTGGAAT	AATAACAAGT	CACCAGAAGG	4980
TOGTAGGAGA	GTTGTGAGGT	GGCATGGCCT	TTGCTCGAAG	TTTGCCAGAA	CTCTCGGCGG	5040
CGGCAGCTTG	GGCAGTAGAT	GTTTTTAAGG	GCATATAGTT	TGGGGGCTAA	GAAGACAGAT	5100
TCCTGGCTGT	GGGCGTCTCC	GTGGCAGCGG	GGGCACTGGG	TCTCGCATT	CACAAGCCAA	5160
GTCAGCTGAG	GTTTGGTGGG	ATCAAAGACC	AGAGGAAGGT	TATTACCTTT	CAGGCGGTGC	5220
TTGCCTCGGG	TGTCCATGAG	TTCTTTTCCC	CTTTGGGTGA	GAAACATGCT	GTCCGTGTCT	5280
CCGTAGACAA	ATTTGAGAAT	CCGGTCTTCT	AGGGGAGTGC	CTCTGTCTTC	TAAATAGAGG	5340
ATGTCTGCCC	ATTCAGAGAC	AAAGGCTCTA	GTCCACGCGA	GGACAAATGA	AGCTATGTGT	5400
GAGGGGTATC	TGTTATTAAA	TATGAGAGAG	GATTTTTTTT	GCAAAGTATG	CAGGCACAGG	5460
GCTGAGTCAT	CAGCTTCCAG	AAAGGTGATT	GGTTTGTAAG	TGTATGTCAC	GTGATGGTTC	5520

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FIGURE 1D

TGGGGGTCTC	CCAGGGTATA	AAAGGGGGCG	TCTTCGTCTG	AGGAGCTATT	GCTAGTGGGT	5580
GTGCACTGAC	GGTGCTTCCG	CGTGGCATCC	GTTTGCTGCT	TGACGGGTGA	GTAGGTGATT	5640
TTTAGCTCTG	CCATGACAGA	GGAGCTCAGG	TTGTCACTTT	CGACGAAGGC	GGTGCTTTTG	5700
ATGTCGTAGG	TGCCGTCTGA	AATGCCTCTA	ACATATTTGT	CTTCCATTTG	GTCAGAAAAG	5760
ACAGTGACTC	TGTTGTCTAG	CTTAGTGCCA	AAGCTGCCAT	ACAGGGCATT	GGACAGCAGT	5820
TTGGCAATGC	TTCTGAGAGT	TTGGTTTTTC	TCTTTATCCG	CCCTTTCCTT	GGGCGCAATG	5880
TTAAGTTGCA	CGTAGTCTCT	AGCCAGACAC	TCCCCTGTTG	GAAATACTGT	GGTGCGGGGG	5940
TCGTTGAGAA	TTTGGACTCT	CCAGCCGCGG	TTATGAAGCG	TGATGGCATC	CAAACAAGTT	6000
ACCACTTCCC	CCCGTAGTGT	CTCGTTGGTC	CAGCAGAGGC	GACCTCCTTT	TCTGGAGCAG	6060
AAGGGCGGTA	TAACGTCCAA	GAATGCTTCT	GGGGGTGGGT	CTGCATCAAT	GGTGAATATC	6120
GCGGGCAGTA	GGGTGCGATC	AAAATAGTCA	ATGGGTCTGT	GCAACTGGGT	TAGGCGGTCT	6180
TGCCAGTTTT	TAATTGCAAG	CGCTCGATCA	AAGGGGTTC	AAGGTTTTCC	CGCTGGGAAA	6240
GGATGGGTGA	GGGCGCTGGC	ATACATGCCG	CAGATGTCAT	ACACATAGAT	GGCTTCTGTT	6300
AGGACGCCCTA	TGTAGGTAGG	ATAGCATCGG	CCGCCCCGAA	TACTTTCTCT	AACGTAATCA	6360
TACATTTTCT	TGGAAGGGGC	TAGTAGAAAG	TTGCCAGAG	AGCTCTCTGT	GGGACGCTGG	6420
GATCGGTAGA	CTACCTGTCT	GAAGATGGCA	TGGGAATTGG	AGCTGATGGT	GGGCCTTTGG	6480
AGGACATTGA	AATTGCAGTG	GGGCAGCCCC	ACTGACGTGT	GAACAAAGTC	CAAATAAGAT	6540
GCTTGGAGTT	TTTTAAACCA	TTGGGCGGTA	ACCAGCAAGT	CCATAGCACA	GTAGTCCAAG	6600
GTGCGTTGCA	CAATATCATA	GGCACCTGAA	TTCTCTTGCA	GCCAGAGACT	CTTATTGAGA	6660
AGGTACTOCT	CGTCGCTGGA	CCAGTAGTCC	CTCTGAGGAA	AAGAATCTGC	GTCGGTTCGG	6720
TAGGTACCTA	ACATGTAAAA	TTCAATTTACA	GCTTTGTAAG	GGCAGCAGCC	TTTTTCCAGC	6780
GGTAAAGCGT	AAGCGGCAGC	TGCGTTTCTG	AGACTCGTGT	GCGTGAGAGC	AAAGGTATCT	6840
CGGACCATGA	ACTTCACAAA	CTGAAATTTA	TAGTCTGCTG	AGGTGGGAGT	GCTTCTCTCC	6900
CAGTCTTTGA	AGTCTTTTCG	AGCAGCATGT	GTGGGGTTAG	GCAGAGCAAA	AGTTAAGTCA	6960
TTGAAAAGAA	TCTTGCCACA	ACGAGGCATG	AAATTTCTAC	TGACTTTAAA	AGCAGCTGGA	7020
ATACCTTGTT	TGTTGTTAAT	GACTTGTGCG	GCTAGAACAA	TCTCATCAAA	GCCGTTTATG	7080
TTGTGCCCTA	CGACATAGAC	TTCCAAGAAA	GTCGGTTGCC	CTTTGAGTTC	AAGCGTACAC	7140
AGTTCTCTGA	AAGGAATGTC	GCTGGCATGG	ACATAGCCCA	GTTTGAGGCA	GAGGTTTTCT	7200
AAGCACGGAT	TATCTGCCAG	GAAGTGGGCG	CAAAGCAAAG	TGCTGGCAGC	TTCTTGAAGG	7260
GCATCCCGAT	ACTGTTTAAA	CAAGCTGCGT	ACTTTGTTTC	TTTGCGGGTT	GAGGTAGTAG	7320

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FIGURE 1E

AAGGTATITG CTTGCTTTGG CCAGCTTGAC CACTTTTGCT TTTTAGCTAT GTTAACAGCC	7380
TGTTTCGCATA GCTGCGCGTC ACCAAACAAA GTAAACACGA GCATAAAAGG CATGAGTTGC	7440
TTGCCAAAGC TACCGTGCCA AGTGTATGTT TCCACATCAT AGACGACAAA GAGGCGCCGG	7500
GTGTCGGGGT GAGCGGCCCA GGGGAAAAAC TTTATTTCTT CCCACCAGTC CGAAGATTGG	7560
GTGTTTATGT GGTGAAAGTA AAAGTCCCGG CGGCGAGTGC TGCAGGTGTG CGTCTGCTTA	7620
AAATACGAAC CGCAGTCGGC ACATCGCTGG ACCTCTGCGA TGGTGTCTAT GAGATAGAGC	7680
TTTCTCTTGT GAATAAGAAA GTTGAGGGGG AAGGGAAGGC GCGGCCTGTC AGCGCGGGCC	7740
GGGATGCTTG TAATTTTCAG CTTCCCCTTG TATGTTTTGT AAACGCACAT ATTTGCGTTG	7800
CAGAACCGGA CGAGCGTGTC TTGGAATGAA AGGATATTTT CTGGTTTTAA ATCAAATGGG	7860
CAGTGCTCCA AGTGCAAGTC AAAAAGTTT CGGAGACTGC TGGAAACGTC TGCCTGATAC	7920
TTGACTTCCA GGGTGGTCCC GTCTTCAGTC TGACCGTGCA GCGTAGGGT ACTGCGTTTG	7980
GCGACCAGGG GCCCCCTTGG GGCTTTCTTT AAAGGGGACG TCGAGGGCCG AGGGGCGGCC	8040
TTTGCCCTTC GGGCCTGAGG GGCGGTAGCT GGACCGGATC GTTGAGTTG GGCATGGGTT	8100
GCAGCTGTTG GCGCAGGTCT GATGCGTGCT GCACGACTCT GCGGTTGATT CTCTGAATCT	8160
CCGGGTGTTG GGTGAATGCT ACTGGCCOOG TCACTTTGAA OCTGAAAGAG AGGTGACAG	8220
AGTTAATAGA TGCATCGTTA AGCTCOGOCT GTCTAATAAT TTCTTOCAG TCACCGCTGT	8280
GGTCTCGGTA AGCAATGTCT GTCATAAACC GTTCGATCTC TTCCTCGTCC AGTTCTCCGC	8340
GACCAGCTOG GTGGACOGTG GCTGOCAAGT CCGTGCTAAT GCGTCGCATG AGCTGGGAAA	8400
AGGCATTGGT TCCCGGTTCA TTCCACACTC TGCTGTATAT AACAGCGCCA TCTTCGTCTC	8460
GGGCTCGCAT GACCACCTGG CCAAGTTTA GCTCCACGTG GCGAGCAAAG ACGGGGCTGA	8520
GGCGGAGGTG GTGGTGCAGA TAATTGAGAG TGGTGGCTAT GTGCTOCAG ATGAAGAAGT	8580
AGATGACCCA TCTGCGGATG GTCGACTOGT TAATGTTGCC CTCTCGCTOC AGCATGTTTA	8640
TGGCTTOGTA AAAGTCCACA GCGAAGTTAA AAACTGCTC GTTGCGGGCG GAGACTGTCA	8700
GCTCTTCTTG CAGGAGACGA ATGACTTOGG CTAOGGCGGC GCGGACTTCT TCGGCAAAGG	8760
AGCGGGGCGG CACGTCTCC TCCTCTCTT CTTCCCCCTC CAGCGGGGGC ATCTCCAGCT	8820
CTACOGGTTT CGGGCTGGGG GACAGGGAAG GCGGTGCGGG CCGAACGACC CGTCGGCGTC	8880
GGGTGGGCAA GGGGAGACTC TCTATGAATC GCTGCACCAT CTCGCCCCGG CGTATCCGCA	8940
TCTCTGGGT AACGGCACGC CCGTGTCTC GGGGTGCGGAG CTCAAAGCT CCGCCCCGCA	9000
GTTCGGTCAG AGGCGCGGCC GCGGGCTGGG GCAGGCTGAG TGCGTCAATA ACATGCGCCA	9060
CCACTCTCTC CGTAGAGGCG GCTGTTTGA ACCGAAGAGA CTGAGCATCC ACGGGATCGC	9120
TGAAGCGTTG CACAAGAGCT TCTAACCAGT CGCAGTCACA AGGTAGGCTG AGCATAGGTG	9180

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FIGURE 1F

AGGCTCGCTC	GGTGTTGTTT	CTGTTTGGCG	GCGGGTGGCT	GAGGAGAAAA	TTAAAGTACG	9240
CGCACCGCAG	GCGCCGGATG	GTTGTCAGTA	TGATGAGATC	CCTGCGACCC	GCTTGTTGGA	9300
TTCTGATGCG	GTTTGCAAAG	CCCAGGCTT	GGTCTTGGA	TCGCCCAGGT	TCATGCACTG	9360
TTCTTGGAGG	AATCTCTCTA	CGGGCACGTT	GCGGCGCTGC	GGGGGCAGGG	TCAGCCATTT	9420
CGGTGCGTCC	AAACCCACGC	AATGGTTGGA	TGAGAGCCAA	GTCCGCTACT	ACGCGCTCTG	9480
CTAGGACGGC	TTGCTGGATC	TGCCGCAGCG	TTTCATCAAA	GTTTTCCAAG	TCAATGAAGC	9540
GGTCGTAGGG	GCCCCGCTTT	ATGGTGTAGG	AGCAGTTTGC	CATGGTGGAC	CAGTCCACAA	9600
TCTGCTGATC	TACCCGCACC	GTTTCTCGGT	ACACCAGTCG	GCTATAGGCT	CGCGTCTCGA	9660
AAACATAGTC	GTTGCAAACG	CGCACACGT	ATTGGTAGCC	GATTAGGAAG	TGCGGCGGCG	9720
GGTATAAGTA	GAGCGGCCAG	TTTTGCGTGG	COGGCTGTCT	GGCGCCGAGA	TTCCGTAGCA	9780
TGAGTGTGGG	GTATCGGTAC	ACGTGACGCG	ACATCCAGGA	GATGCCGCG	GCCGAAATGG	9840
CGGCCCTGGC	GTAATCCCGG	GCCCGGTTCC	ATATATTCTT	GAGAGGACGA	AAGATTCCAT	9900
GGTGTGCAGG	GTCTGCCCCG	TAAGACGCGC	GCAATCTCTC	GCGCTCTGCA	AAAAACATAC	9960
AGATGAAACA	TTTTTGGGGC	TTTTCAGATG	ATGCATCCCG	CTTTACGGCA	AATGAAGCCC	10020
AGATCCGCGG	CAGTGGCGGG	GGTTCTGCT	GCGGCCGCG	GCGCGAGCGT	TGACTCAGGC	10080
GGTACTACCG	CGCCCCCTGG	TGTCGAGTGC	GGCGAGGGGG	AAGGGTTAGC	TCGGCTGTAC	10140
GCGCACCCGG	ACACACACCC	GCGCGTGTGC	GTGAAGCGCG	ATGCGGCGGA	GGCGTACGTT	10200
CCCGGGGAGA	ACTTATTCCG	CGACCGCAGC	GGGGAGGAAC	CCGAAGGGAG	CCGAGACCTA	10260
AAGTACAAGG	CCGGTCGGCA	GTTGCGCGCC	GGCATGCCCC	GAAAGCGGGT	GCTGACCGAA	10320
GGGGACTTTG	AGGTGGATGA	GCGCACTGGC	ATCAGCTCAG	CCAAAGCCCA	CATGGAGGCG	10380
GCCGATCTAG	TGCGGGCTTA	CGAGCAAACG	GTGAAGCAAG	AGGCTAATTT	TCAAAGTCA	10440
TTTAATAAOC	ACGTGCGGAC	ACTGATCTCC	CGCGAGGAGA	CCACCCCTGGG	TTTGATGCAC	10500
TTGTGGGACT	TTGCGGAGGC	ATACGCGCAG	AACCCCGGCA	GCAAGACCOCT	TACGGCCCAA	10560
GTCTTTCTCA	TCGTGCAGCA	CTTGCAAGAT	GAGGGCATT	TTGGGGAAGC	TTTCTTAAGC	10620
ATAGCAGAGC	CCGAGGGACG	ATGGATGCTA	GATCTGCTAA	ACATATTGCA	GTCCATTGTG	10680
GTGCAAGAGC	GCCAGCTTTC	GCTATCTGAA	AAGGTAGCCG	CGGTGAACCTA	CTCCGTAGTT	10740
ACCCTGGGCA	AACATTATGC	CGCAAGATC	TTTAAGAGCC	CCTTTGTGCC	GCTTGACAAG	10800
GAGGTGAAGA	TCAGTACATT	TTATATGCGC	GCGGTGCTTA	AGGTCTCTGGG	TCTAAGTCAC	10860
GACCTGGGCA	TGTACAGAAA	CGAAAAGGTG	GAGAAGCTAG	CTAGCATAGG	CAGGCGTTCCG	10920
GGAGATGAGC	GACGCGGAGC	TGCTGTTCAA	CCTCCGCGCG	GCACTAACCA	CTGGCGATT	10980

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FIGURE 1G

TGAAGCATTG	GATGAAGGCG	GGGACTTTAC	CTGGGCTCCG	CCAACGCG	CGACCGCGG	11040
GGCCGCTTTG	CCGGGGCCCG	AGTTTGAGAG	TGAAGAGACG	GACGATGAAG	TCGACGAATG	11100
AGTGATGCGG	ACCCCGTAT	CTTTCAGCTG	GTCAGTCGGC	AAGAGACCGT	AGCCATGGCG	11160
GAAGCGCCCC	GAAGCCTGGG	CCCCGCCCCCT	TCCAATCCTA	GTTTGCAGGC	TTTATTCCAA	11220
AGCCAGCCCA	GCGCCGAGCA	GGAGTGGCAC	GGCGTGCTGG	AGAGAGTCAT	GGCCCTTAAC	11280
AAAAATGGAG	ACTTTGGCTC	GCAGCCCCAG	GCGAACCAGT	TTGGAGCCAT	CCTCGAAGCC	11340
GTGGTGCCCC	CGCGCTCCGA	TCCCACCCAT	GAAAAAGTGC	TAGCTATTGT	GAATGCGCTC	11400
TTGGAGACTC	AGGCCATCCG	TCGCGATGAG	GCCGGACAGA	TGTACACCGC	GCTGTTGCAG	11460
CGGGTGGCCA	GATACAACAG	TGTGAATGTG	CAGGGCAATT	TGGACAGGCT	GATTGAGGAC	11520
GTGAAGGAGG	CTCTGGCGCA	GCGCGAGCGC	ACCGGGCCCG	GGGCCGGCCT	AGGGTCTGTG	11580
GTAGCCTTGA	ATGCCTTCCT	GAGCACACAG	CCAGCGGTGG	TGGAGAGGGG	CCAGGAGAAC	11640
TATGTGGCCT	TTGTGAGCGC	CTTAAACTC	ATGGTGACCG	AGGCGCCGCA	GTCTGAGGTT	11700
TACCAGGCCG	GACCTAGTTT	CTTTTTTCAA	ACCAGCCGGC	ACGTTTCGCA	GACGGTAAAC	11760
CTCAGTCAGG	CCTTTGATAA	CTTGCGACCC	CTCTGGGGCG	TGCGCGCGCC	AGTACACGAG	11820
CGTACTACCA	TCTCCTCTCT	GCTCACACCA	AACACCCGCT	TGCTCTTGCT	CCTCATTGCG	11880
COCTTTACGG	ACAGCGTGGG	CATATCCCGG	GACAGTTACC	TGGGGCATCT	GCTGACCOCT	11940
TACCGGGAGA	CCATAGGTAA	CACTCGAGTT	GATGAGACCA	CGTACAACGA	GATCACGGAA	12000
GTGAGTCGGG	COCTGGGCGC	CGAAGACGCG	TCTAACTTGC	AAGCCACTCT	CAACTACTTA	12060
CTCACAAATA	AGCAGAGCAA	GTTGCCACAG	GAGTTTTCTC	TGAGTCCCGA	AGAGGAGCGG	12120
GTGCTGCGCT	ACGTGCAGCA	ATCTGTGAGT	TTATTTTTAA	TGCAGGATGG	ACACACGGCC	12180
AOCCACTGCTC	TAGATCAGGC	TGCGGCCAAC	ATAGCGCCCT	CGTTTTACGC	GTCCACCCGC	12240
GACTTTATAA	ACCGACTGAT	GGACTATTTT	CAGCGAGCTG	CGGCTATGGC	COCTGACTAC	12300
TTTTTACAGG	CTGTTATGAA	TCCCCACTGG	CTCCCGCCGC	CGGGTTTCTT	TACTCAGGAG	12360
TTTGACTTTC	CGGAGCCCAA	CGGAGGCTTC	CTGTGGGATG	ATTGGACAG	CGCGCTOCTA	12420
CGCGCGCACG	TAAAGAAGA	GGAGGATCAA	GGAGCTGTGG	GCGGCACGCG	GGCGGCTTCG	12480
GCGCCCGCGT	CTCGCGCGCA	CACACCACCG	CCGCGCCCGG	GTGCGCGGGA	CCTCTTTGCT	12540
OCTAACGCCT	TCCGCAATGT	GCAAAATAAC	GGCGTGGATG	AACCTATTGA	CGGCTTAAGC	12600
AGATGGAAGA	CTTACGCCCA	GGAGAGGCAG	GAAGTCGTTG	AGCGGCACAG	GCGCAGAGAG	12660
GCGCGTCGCG	GGGCGCGCGA	GGCGGTCTA	GAGTCGAGCG	ATGATGACGA	CAGCGACCTA	12720
GGGCGGTTTC	TACGGGGCAC	GGGGCACCTC	GTTCAACAAC	AGTTTATGCA	TCTGAAGCCC	12780
CGGGGTCCCC	GCCAGTTTTG	GTAACCGCAC	TGTATTAAGC	TGTAAGTOCT	CTCATTGAC	12840



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FIGURE 1H

ACTTACCAA	GCCATGGTCT	TGCTTCGCCT	CTGACACTTT	CTCTCCCCC	ACACGCGGCA	12900
CCCTACAGCC	TAGGGGCGAT	GCTCCAGCCC	GAAGTGCAGC	CAATTCCGCT	GTCCCGCCGC	12960
CGGCTTATGA	GGCGGTGGTG	GCTGGGGCCT	TCCAGACGCT	TTCTCTTCGA	CGAGATCCAC	13020
GTCCCGCCGC	GATATGCTGC	CGCGTCTGCG	GGGAGAAACA	GTATCCGTTA	TTCCATGCTG	13080
CCCCCGTTGT	ATGACACCAC	GAAGATATAC	CTTATCGACA	ACAAATCTTC	AGACATCCAA	13140
ACTCTGAATT	ACCAAAACGA	CCACTCAGAT	TACCTCACTA	CCATCGTGCA	GAACAGCGAC	13200
TTACGCCCC	TGGAGGCTAG	CAACCACAGC	ATCGAGCTAG	ACGAGCGGTC	CCGCTGGGGC	13260
GGAAACCTTA	AAACCATCCT	TTATACAAAC	CTGCCTAATA	TCACCCAGCA	CATGTTTTCT	13320
AACTCTTTTC	GGGTAAAGAT	GATGGCCTCA	AAAAAAGACG	GCGTGCCCCA	GTACGAGTGG	13380
TTCCCCCTAA	GGCTGCCCGA	GGGTAACCTT	TCTGAGACTA	TGGTCATTGA	CCTCATGAAC	13440
AATGCCATCG	TAGAGCTGTA	CTTGGCTTTG	GGGCGCCAGG	AGGGCGTGAA	GGAAGAGGAC	13500
ATCGGGGTAA	AGATCGATAC	GCGCAACTTT	AGTCTGGGCT	ATGACCCGCA	GACCCAGTTA	13560
GTGACGCCCC	GCGTATACAC	CAATGAAGCT	ATGCATGCGG	ACATCGTGTT	GCTGCCGGGC	13620
TGTGCTATAG	ACTTTACGCA	CTCCCGATTA	AACAACCTCT	TGGGCATACG	CAAGCGTTTT	13680
CCGTACCAAG	AGGGCTTCGT	CATCTCCTAT	GAGGACCTTA	AGGGGGGTAA	CATCCCCGCT	13740
TTGATGGACG	TGGAGGAGTT	TAACAAGAGC	AAGACGGTTC	GAGCTTTGCG	GGAGGACCCC	13800
AAGGGGCGCA	GTTATCACGT	GGGCGAAGAC	CCAGAAGCCA	GAGAAAACGA	AACCGOCTAC	13860
CGCAGCTGGT	AOCTGGCTTA	CAATTACGGG	GACCCAGAAA	AAGGGGTGCG	GGOCACCACA	13920
CTGCTGACTA	COGGCGACGT	GACCTGCGGG	GTGGAACAGA	TCTACTGGAG	CTTGCCGGAC	13980
ATGGCACTGG	AOCAGTCAC	TTTCAAGGCT	TOGCTGAAAA	CTAGCAATTA	CCCCGTGGTG	14040
GGCAGAGAAC	TTTTGCCACT	GGTGCOGCGT	AGCTTTTATA	ACGCTCAGGC	TGTGTACTCA	14100
CAGTGGATAC	AAGAAAAAAC	TAACCAGACC	CACGTTTTTC	ATCGCTTTCC	CGAAAATCAG	14160
ATC1TGGTGC	GGCCCCCTGC	GCCTAOCATC	ACGTCCATAA	GTGAAAATAA	GCCCAGCTTG	14220
ACAGATCAGG	GAATCGTGCC	GCTCOGGAAC	CGCTTGGGGG	GCGTGCAACG	TGTGACTTTG	14280
ACTGACGCGC	GGCGAAGATC	CTGCCCCCTAC	GTCTACAAGA	GCTTAGGCAT	TGTGACGCGG	14340
CAAGTGCTAT	CTAGCCGCAC	GTTTTAAGCA	GACAGGGGCA	CAGCAGCCGT	TTTTTTTTTT	14400
TTTTTTTTCG	TOCACCAGGG	ACTGTCAGGA	ACATGGCCAT	TCTAATCTCT	OCTAGCAATA	14460
ACACGGGCTG	GGGCCTGGGA	TGCAATAAGA	TGTACGGGGG	CGCTCGCATA	CGTTCAGACT	14520
TGCATCCAGT	GAAGGTGCGG	TCGCATTATC	GGGCCGCCTG	GGGCAGCCGC	ACCGGTGCGG	14580
TGGGTCGCCG	CGCAACCGCA	GCTTTAGCCG	ATGCCGTGCG	GGCCACCGGT	GATCCGGTGG	14640

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FIGURE 11

CCGACACAAT	CGAGGCGGTG	GTGGCTGACG	CCCGCCAGTA	CCGGCGCCGC	AGACGGCGAG	14700
GGGTGCGCCG	AGTCAGAAAG	TTGCGTCGGA	GCCCCCGCAC	TGCCCTGCAG	CGACGGGTTC	14760
GTAGCGTACG	CCGACAAGTG	GCGAGGGCCC	GCAGGGTGGG	CCGGCGCGCG	GCCGCTATCG	14820
CAGCAGACGC	GGCCATGGCC	ATGGCGGCGC	CAGCTCGGCG	ACGCCGTAAC	ATCTACTGGG	14880
TACGCGATGC	GGCAACCGGA	GCCCCGCTTC	CGGTGACAAC	CCGGCCTACG	GTCAGCAACA	14940
CCGTTTGAAA	TGTCTGCTAC	TTTTTTTTTC	TTCAATAAAA	GCCCCCGGAC	TGATCAGCCA	15000
CACCTTGTC	CGCAGAATTC	TTTCAAACCA	TTGCGCTCTC	AGCGCGCGCG	CCGATAAACC	15060
CACTGTGATG	GCCTCCTCTC	GGTTGATTAA	AGAAGAAATG	TTAGACATCG	TGGCGCCTGA	15120
GATTTACAAG	CGCAAACGGC	CCAGGCGAGA	ACGCGCAGCA	CCGTATGCTG	TGAAGCAGGA	15180
GGAGAAGCCT	TTAGTAAAGG	CGGAGCGCAA	AATTAAGCGC	GGCTCCAGAA	AGCGGGCCTT	15240
GTCAGGCGTT	GACGTTCCCTC	TGCCCCGATGA	CGGCTTTGAG	GACGACGAGC	CCCACATAGA	15300
ATTTGTGTCT	GCGCCGCGTC	GGCCCTACCA	GTGGAAGGGC	AGGCGGGTGC	GCCGGGTTTT	15360
GCGTCCCAGC	GTGGCCGTTA	GTTTCACGCC	CGGCGCGGCG	TCCCTCCGTC	CGAGTTCCAA	15420
GCGGGTGTAT	GACGAGGTGT	ACGCAGACGA	CGACTTCTTA	GAAGCGGCCG	CGGCCCCGTA	15480
GGGGGAGTTT	GCTTACGGAA	AGCGGGGACG	CGAGGCGGCC	CAGGCCAGC	TGCTACCGGC	15540
TGTGGCCGTG	COGGAACOGA	CTTACGTAGT	TTTGGATGAG	AGCAACCCCA	CCCGAGCTA	15600
CAAGCCTGTA	ACCGAGCAGA	AAGTTATTCT	TTCCCGCAAG	CGGGGTGTGG	GGAAGGTAGA	15660
GOCTACCATC	CAGGTTTTAG	CTAGCAAGAA	GCGGCGCATG	GCOGAGAATG	AGGATGACCG	15720
CGGGGCCGGC	TCCGTGGCCG	AAGTGCAGAT	GCGAGAAGTT	AAACCGGTAA	COGCTGCCTT	15780
GGGTATTCAG	ACCGTGGATG	TTAGCGTGCC	CGACACAGC	ACTCCATGG	AGGTGCTGCA	15840
GAGTCTCAGT	CGGGCGGCTC	AAGTAGCTCA	ACGCCTGACC	CAACAACAGG	TGCGGCCTTC	15900
GGCTAAGATT	AAAGTGGAGG	CCATGGATCT	TTCTGCTOCC	GTAGAOGCAA	AGCCTCTTGA	15960
CTTAAAACCC	GTGGACGTAA	AGCCGACCCC	GACCTTCGTG	CTTCCAGCT	TTGTTCACT	16020
CAGCACOCOA	ACTGACTCTT	TGCCCCGGGC	AGTGGTCGTG	CCGCGCAAGC	CCCGCGTGCA	16080
COGTGCTACT	AGGCGTACTG	CGCGCGGCTT	GCTGCCCTAT	TACCGCCTGC	ATCCTAGCAT	16140
CACGCGACA	CCGGGTACC	GAGGATCTGT	CTACACGAGC	TCGGGTGTGC	GCCTGCCCGC	16200
CGTOCGGGCG	CCGCGTGC	CGCGTACCC	GCAGGGCGAC	TCCCCGCCTC	AGCGCTGCCG	16260
CGGCCGCGGC	GCTGCTGCCC	GGCGTGCGCT	ATCACCCTAG	CATCCGCCAA	GCGGCCACAG	16320
TAAOCCGGCT	CCGCGTTAA	GCGCTGTGAA	ACTGCAACAA	CAACAACAAA	AATAAAAAA	16380
AGTCTCOGCT	CCACTGTGCA	CCGTTGTCCA	TCGGCTAATA	AAGTCCCGCT	TTGTGCGCGG	16440
CAGGAACCAC	TATCOGTAAC	CTGCGAAAAT	GAGTCCCGCG	GGAAATCTGA	CTTACAGACT	16500

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FIGURE 1J

GAGAATACCG	GTGCGCCTCA	GTGGCCGGCG	CCGGCGCCGA	ACAGGCTTGC	GAGGAGGGTC	16560
TGCGTACCTG	CTCGGCCGCC	GCAGAAGGCG	CGCGGGCGGC	GGCCGCCTGC	GCGGGGGCTT	16620
CCTTCCCCTC	CTGGCTCCCA	TCATTGCAGC	CGCCATCGGC	GCAATCCCCG	GCATCGCATC	16680
AGTGGCCATT	CAGGCGGCCC	ACAACAAATA	GGGACAGTGT	AAAGAAAGCT	CAATCTCAAT	16740
AAAACAAACC	GCTCGATGTG	CATAACGCTC	TCGGCCTGCA	ACTTCTGCTG	CTTACGTCTT	16800
TGACCAAAGT	CACTACTGTT	TTCCTTTTAC	CCAGAGCCGG	CGCCAGCCCC	ACACAGCTTG	16860
TTAACACGCC	ATGGACGAAT	ACAATTACGC	GGCTCTTGCT	CCCCGGCAAG	GCTCCCGACC	16920
CATGCTGAGC	CAGTGGTCCG	GCATCGGCAC	GCACGAAATG	CACGGCGGAC	GTTTTAATCT	16980
GGGCAGTTTG	TGGAGCGGGA	TCAGGAATGT	GGGCAGCGCG	TTAAGAACTG	GGGCTCTCGG	17040
GCCTGGCACA	GCAATGCGGG	CAAGCGTTGC	GCGCCAGCT	GAAAAAGACG	GGCTTGCAAG	17100
AAAAGATATT	GAGGGCGTTA	GCGCCGGTAT	CCACGGAGCC	GTGGATCTGG	GCCGTCAGCA	17160
GCTAGAGAAA	GCTATTGAGC	AGCGCCTAGA	GCGTCGCCCC	ACCGCTGCCG	GTGTGGAAGA	17220
CCTTCCGCTT	CCCCCGGGAA	CAGTCTTAGA	AGCTGATCGT	TTACCGCCCT	CCTACGCCGA	17280
AGCGGTGGCT	GAGCGCCCGC	CGCCGGCTGA	CGTTCTCCTG	CCGCGATCCT	CAAAGCCGCC	17340
GGTGGCGGTG	GTGACCTTGC	CCCCGAAAAA	GAGAGTGTCT	GAAGAGCCTG	TGGAGGAAGT	17400
TGTGATTGCT	TCCTCCGCAC	CGCCGTGCTA	CGACGAGGTT	ATGGCACCGC	AGCCGACTCT	17460
GGTAGCCGAG	CAGGGCGCCA	TGAAAGCAGT	GCCCGTGATT	AAGCCGGCTC	AACCTTTTAC	17520
CCCAGCTGTG	CAAGAAAGC	AACGCATAGT	GACCAACTTG	CCAATCACCA	CAGCTGTGAC	17580
ACGGGAGCGC	GGGTGGCAGG	GCACTCTGAA	TGACATCGTG	GGCCTCGGCG	TTCGTACCGT	17640
GAAGCGCCCG	CGGTGCTATT	GAGGGGGCGC	GCAGCGGTAA	TAAAGAGAAC	ATAAAAAAGC	17700
AGGATTGTGT	TTTTTGTTTA	GCGGCCACTG	ACTCTCCCTC	TGTGTGACAC	GTCCTCCGCC	17760
AGAGCGTGAT	TGATTGACCG	AGATGGCTAC	CCCGTCGATG	CTGCCGCAAT	GGTCCTACTG	17820
CACATCGCCG	GTCAGGACGC	GTCGAGTAC	CTGTCCCCCG	GCTTGGTGCA	ATTGCGACAA	17880
GCCACCGAAT	OCTACTTTAA	CATTGGGAAC	AAGTTTAGAA	ACCCACCGT	CGCCCCGACG	17940
CACGATGTCA	CCACGGAGCG	TTCGCAGCGT	CTGCAGCTCC	GCTTCGTGOC	CGTAGACCGG	18000
GAGGACACAC	AGTACTCCTA	CAAAACCCGC	TTCCAGCTAG	CCGTGGGCGA	CAACCGGGTG	18060
CTGGACATGG	CCAGCACGTA	TTTTGACATC	OGCGGTACGC	TGGAGAGGGG	CGCCAGTTTC	18120
AAGCCTTACA	GCGGCACGGC	CTACAACTCC	TTTGCCCCCA	ACAGTGCCCC	TAACAATACG	18180
CAGTTTAGGC	AGGCCAACAA	CGGTCATCCT	GCTCAGACCA	TAGCTCAAGC	TTCTTACGTG	18240
GCTACCATCG	GCGGTGCCAA	CAATGACTTG	CAAATGGGTG	TGGACGAGCG	TCAGCAGCCG	18300

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FIGURE 1K

GTGTATGCGA	ACACTACGTA	CCAGCCGGAA	CCTCAGCTCG	GCATTGAAGG	TTGGACAGCT	18360
GGATCCATGG	CGGTCATCGA	TCAAGCAGGC	GGGCGGGTTC	TCAGGAACCC	TACTCAAAC	18420
CCCTGCTACG	GGTCCTATGC	TAAGCCGACT	AACGAGCACG	GGGGCATTAC	TAAAGCAAAC	18480
ACTCAGGTGG	AGAAAAAGTA	CTACAGAACA	GGGGACAACG	GTAACCCGGA	AACAGTGTTC	18540
TATACTGAAG	AGGCTGACGT	GCTAACGCCC	GACACCCACC	TTGTTACGCG	GGTACCGGCC	18600
GCGGATCGGG	CAAAGGTGGA	GGGGCTATCT	CAGCACGCAG	CTCCCAACAG	GCCGAACTTT	18660
ATCGGCTTTC	GGGACTGCTT	TGTAGGCTTG	ATGTATTATA	ACAGCGGGGG	CAACCTGGGC	18720
GTCTTAGCGG	GTCAATCCTC	TCAGCTGAAT	GCCGTGGTAG	ACCTGCAAGA	CCGCAACACT	18780
GAGCTTTCCT	ATCAGATGCT	TCTTGCAAAC	ACGACGGACA	GATCCCGCTA	TTTTCAGCATG	18840
TGGAACCAAG	CCATGGACTC	GTACGACCCG	GAGGTCAGGG	TGATAGATAA	CGTGGGCGTA	18900
GAGGACGAGA	TGCCTAATTA	CTGCTTTCCG	TTGTGCGGGG	TTCAGATTGG	AAACCGTAGC	18960
CACGAGGTTC	AAAGAAACCA	ACAACAGTGG	CAAAATGTAG	CTAATAGTGA	CAACAATTAC	19020
ATAGGCAAGG	GGAAOCTACC	GGCCATGGAG	ATAAATCTAG	CGGCCAATCT	CTGGCGTTCC	19080
TTTTTGTACA	GTAATGTGGC	GTTGTACTTG	CCAGACAACC	TTAAATTCAC	COCTCACAAC	19140
ATTCAACTCC	CGCCTAACAC	GAACACCTAC	GAGTACATGA	ACGGGCGAAT	CCCCGTTAGC	19200
GGCCTTATTG	ATACGTACGT	AAATATAGGC	ACGCGGTGGT	CGCCCGATGT	GATGGACAAC	19260
GTGAATCCCT	TTAACCACCA	CGCAACTCG	GGCCTGCGTT	ACCGCTCOCA	GCTGCTGGGC	19320
AACGGCGGCT	TCTGOGACTT	TCACATTCAG	GTGCCACAAA	AGTTTTTTGC	TATTCGAAAC	19380
CTGCTTCTCC	TGCOOCCGAC	GTACACTTAC	GAGTGGTCCT	TTAGAAAGGA	CGTAAACATG	19440
ATCCTTCAGA	GCACTCTGGG	CAATGATCTG	CGGGTCGATG	GGGOCACGTG	TAATATTACC	19500
AGCGTCAACC	TCTACGCCAG	CTTCTTTCCG	ATGTCACATA	ACACCGCTTC	CACCTTGGAA	19560
GCTATGCTCC	GCAACGACAC	TAATGACCAG	TCTTTTAATG	ACTATCTCTC	GGGGGCTAAC	19620
ATGTTGTATC	OCATTCCGCC	CAATGCCACC	CAACTGCOCA	TCCOCTCACG	CAACTGGGCA	19680
GOGTTCCGTG	GCTGGAGTCT	CACCCGGCTA	AAACAGAGGG	AGACACCGGC	GCTGGGGTCC	19740
COGTTGATC	CCTATTTCAC	CTATTGGGGC	ACCATCCCGT	ACCTGGACGG	CACCTTTTAC	19800
CTCAGOCACA	OCTTTOGCAA	GGTGGCCATC	CAGTTTGACT	CTTCTGTGAC	CTGGCCCCGC	19860
AATGACAGGC	TTTAAACCCC	TAACGAGTTC	GAAATAAAAA	TAAGTGTGGA	CGGTGAAGGC	19920
TACAACGTGG	CTCAGAGCAA	TATGACTAAG	GACTGGTTCC	TGGTGCAGAT	GCTAGCGAAT	19980
TACAACATAG	GCTACCAGGG	ATATCACCTG	CCCCCGGACT	ACAAGGACAG	GACATTTTCC	20040
TTCCTGCATA	ACTTCATACC	CATGTGCOGA	CAGGTTOCCA	ACOCAGCAAC	CGAGGGCTAC	20100
TTTGGACTAG	GCATAGTGAA	CCATAGAACA	ACTCOGGCTT	ATTGGTTTCG	ATTCTGCCGC	20160

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FIGURE 1L

GCTCCGCGCG	AGGGCCACCC	CTACCCCCAA	CTGGCCTTAC	CCCCTCATTG	GGACCCACGC	20220
CATGCCCTCC	GTGACCCAGA	GAGAAAGTTT	CTCTGCGACC	GCACCCTCTG	GCGAATCCCC	20280
TTCTCCTCGA	ACTTCATGTC	CATGGGGTCC	CTCACAGATC	TCGGACAGAA	CCTACTGTAT	20340
GCCAATGCCG	CGCATGCCCT	AGACATGACT	TTTGAGATGG	ATCCCATCAA	TGAGCCCACT	20400
CTGCTGTACG	TTCTGTTTGA	GGTGTTTGAC	GTGGCCCGCG	TTCACCAGCC	CCACAGAGGC	20460
GTGATCGAAG	TGGTGTACTT	GAGAACGCCA	TTCTCAGCCG	GCAACGCTAC	CACATAAGTG	20520
CCGGCTTCCC	TCTCAGGCCC	CGCGATGGGT	TCTCGGGAAG	AGGAGCTGAG	ATTCATCCTT	20580
CACGATCTCG	GTGTGGGGCC	ATACTTCCTC	GGCACTTTCG	ATAAACACTT	TCCGGGGTTC	20640
ATCTCCAAAG	ACCGAATGAG	CTGTGCCATA	GTCAACACTG	CCGGACGCGA	AACCGGGGGC	20700
GTGCATTGGC	TGGCCATGGC	TTGGCACCCA	GCCTCGCAGA	CCTTTTACAT	GTTTGACCCT	20760
TTCGGTTTCT	CGGATCAAAA	GCTAAAGCAA	ATTTACAAC	TTGAGTATCA	GGGCCTCCTA	20820
AAGCGCAGCG	CCCTGACTTC	CACTGCTGAC	CGCTGCCTGA	CCCTTATTCA	AAGCACTCAA	20880
TCTGTCCAGG	GACCCAACAG	CGCCGCCTGC	GGTCTGTTCT	GCTGCATGTT	CCTCCACGCC	20940
TTTGTCCGCT	GGCCGCTTAG	GGCCATGGAC	AACAATCCCA	CCATGAACCT	CATCCACGGA	21000
GTTCCCAACA	ACATGTTGGA	GAGCCCCAGC	TCCCAAAATG	TGTTTTTGAG	AAACCAGCAA	21060
AATCTGTACC	GTTTCCTAAG	ACGCCACTCC	CCCCATTTTG	TTAAGCATGC	GGCTCAAATT	21120
GAGGCTGACA	CCGCCTTTGA	TAAAATGTTA	ACAAATTAGA	CCGTGAGCCA	TGATTGCAGA	21180
AGCATGTCAT	TTTTTTTTTA	TTGTTTAAAA	TAAAAACAAC	ACATAACATC	TGCGCCTGT	21240
CCTCCCGTGA	TTTCTTCTGC	TTTATTTGCA	AATGGGGGGC	ACCTTAAAC	AAAGAGTCAT	21300
CTGCATCGTA	CTGATCGATG	GGCAGAATAA	CATTCTGATG	CTGGTACTGC	GGGTCCAGC	21360
GGAATTCGGG	AATGGTAATG	GGGGGGCTCT	GTTTAACCAG	CGCGGACCAC	ATCTGCTTAA	21420
CCAGCTGCAA	GGCTGAAATC	ATATCTGGAG	CCGAAATCTT	GAAATCGCAG	TTTOGCTGGG	21480
CATTAGCCCG	CGTCTGCOGG	TACACAGGGT	TACAGCACTG	AAATACTAAC	ACCGATGGGT	21540
GTTCTACGCT	GGCCAGGAGT	TTGGGATCTT	CTACGAGGCT	CTTATCTACC	GCAGAGCCCG	21600
CGTTGATATT	AAAGGGCGTT	ATCTTGCATA	CCTGACGGCC	TAGGAGGGGC	AATTGGGAGT	21660
GACCCAGTT	ACAATCACAC	TTTAAAGGCA	TAAGCAGATG	AGTTCCGGCA	CTTTGCATCC	21720
TGGGGTAACA	GGCTTTCTGA	AAGGTCATGA	TCTGOCAGAA	AGCCTGCAAA	GCCTTGGGCC	21780
CCTOGCTGAA	AAACATACCA	CAAGACTTTG	AGGTAAAGCT	GCCGGCCGGC	AAAGCGGCGT	21840
CAAAGTGACA	GCAAGCCGCG	TCTTCATTCT	TTAGCTGCAC	TACGTTTCATA	TTCCACCGGT	21900
TGGTGGTGAT	CTTTGTCTTA	TGCGGGGTCT	CTTTTAAAGC	CCGCTGCCCA	TTTTOGCTGT	21960

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FIGURE 1M

TCACATCCAT CTCTATCACT TGGTCTTTGG TAAGCATAGG CAGGCCATGC AGGCAGTGAA 22020
GGGCCCCGTC TCCCCCTCG GTACACTGGT GGC GCCAGAC CACACAGCCC GTGGGGCTCC 22080
ACGAGGTCGT CCCAGGCCT GCGACTTTTA ACACAAAATC ATACAAGAAG CGGCCATAA 22140
TAGTTAGCAC GGTTTTCTGA GTACTGAAAG TAAGAGGCAG GTACACTTTA GACTCATTAA 22200
GCCAAGCTTG TGCAACCTTC CTAAAACACT CGAGCGTGCC AGTGTCGGGC AGCAAGGTTA 22260
AGTTTTTAAT ATCCACTTTC AAAGGCACAC ACAGCCCCAC TGCTAATTCC ATGGCCCGCT 22320
GCCAAGCAAC TTCGTCGGCT TCCAGCAAGG CCCGGCTGGC CGCCGGCAGG GCGGGAGCGG 22380
CGGCCTCAGC GGCTGGGGCT GAAGGTTTGA AAATCTTGGC GCGCTTAACG GCTGTGACAT 22440
CTTCGGCGGG GGGCTCAGCG ATCGGCGCGC GCCGTTTGGC GCTGACTTTT TTCCGGGGCG 22500
TCTCATCTAT CACTAAGGGG TTCTCGTCCC CGCTGCTGTC AGCCGAAGTC GTGGCTCGCG 22560
TTAAGTCACC GCTGCGATT CATTATTCTCT CCTAGATAAC GACAACAAAT GGCAGAGAAA 22620
GGCAGTGAAA ATCAGCGGCC AGAGAACGAC ACTGAGCTAG CAGCGGTTTC AGAAGCCCTA 22680
GGCGCGGCCG CTTCGGCCCC CTCACGTAAC TCCCCGACTG ACACGGATT CAGGGGTGGAA 22740
ATGACGCCCA CCAGCAGCCC CGAGCCGCC GCGCTCCCC CAAGTTCGCC TGCCGCAGCA 22800
CCTGCCCCCTC AGAAGAACCA GGAGGAGCTC TCTTCCCCCG AGCCCGCGGT AGCAGCAGCG 22860
GAGCCAGAAG CCGCTTCGCG GCCCAGACCA CCCACACCCA CCGTTCAGGT CCCGCGGGAG 22920
CCGAGCGAGG ATCAACCTGA CGGACCCGCG ACGAGGCCTT CGTACGTGAG CGAGGATTGC 22980
CTCATCGGCC ATATCTCTCG CCAGGCTAAC ATTGTTAGAG ACAGCCTGGC AGACCGCTGG 23040
GAGTTAGAGC CCACCGTGTC GGCTCTCTCC GAGGCTTAAG AAAAGCTCCT CTTTGTGCC 23100
AAGGTACCAC CCAAGAAGCA AGAGAATGGC ACTTGCGAAC CTGAACCTCG CGTTAATTTT 23160
TTCCCCAACC TTGTAGTGCC CGAACTTTA GCCACGTAGC ACATCTTTTT CCAAAACCAA 23220
AAAATCCCC TGTCTTGTCG CGCCAAOOGC ACCCAGACAG ACACCATCAT GCACCTCTAC 23280
TCGGGGGACT CTTTACCGTG CTTCCCCAG CTGCAGCTGG TCAACAAAAT CTTTGAAGGC 23340
TTGGGCTCAG AGGAGCGGCG CGCAGCCAAC TCGCTGAAAG ATCAAGAGGA TAACAGCGCG 23400
TTAGTTGAGC TCGAAGGGGA CAGTCCCCGA CTGGCTGTGG TTAAGGCAC ACTGTCTTTG 23460
ACACATTTCT CCTACCTGTC CATAACACTA CCGCCTAAGG TGATGGCAGC TGTCAGTGGC 23520
AGCCTCATTC ATGAATCAGC AGCGACCGCC GAACCGGAAG CTGAGGCGCT GCCAGAAGCC 23580
GAGGAGCCCC TGGTTAGTGA CCCTGAACTT GCTCGCTGGT TGGGGCTCAA CTTACAACAG 23640
GAGCCCGAGG CCACGGCCCA GGCTTTGGAA GAAAGACGCA AGATTATGTT GGCAGTATGC 23700
TTAGTCACAC TTCAGCTCGA GTGCCTGCAC AAGTTTTTTT CTTAGAGGA TGTCATCAA 23760
AAGCTGGGAG AGAGCCTCCA CTAOCCTTT CGCCACGGCT ACGTGCGCCA AGCCTGCTCC 23820

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FIGURE 1N

ATTTCTAACG TGGAACCTAAC GAACATCGTC TCATACCTGG GTATCTTGCA CGAAAACCGC 23880
TTGGGACAGA GTACCCTACA CGCCACCCTT AAAGACGAGA ACCGCAGAGA CTACATCAGA 23940
GACACAGTCT TTCTCTTTCT GGTTTATACT TGGCAGACTG CCATGGGCAT TTGGCAGCAG 24000
TGCCTCGAGA CTGAGAACGT AAAAGAACTT GAAAAGCTCT TGCAAAAAAG CAAGAGGGCT 24060
CTCTGGACGG GCTTCGACGA GCTCACCATA GCTCAAGACC TAGCTGACAT AGTGTTCCCC 24120
CCCAAATTCT TGCACACCTT GCAAGCCGGC CTGCCAGACC TTACATCCCA GAGTCTCCTT 24180
CACAACCTTC GCTCCTTCAT TTTCGAACGC TCGGGCATTG TACCCGCCAT GTGCAATGCA 24240
CTGCCACCG ACTTCATCCC TATCAGCTAC CGGGAGTGCC CTCCAACCTT CTGGGCCTAC 24300
ACCTACCTCT TTAAACTGGC CAATTACCTC ATGTTTCACT CCGACATCGC TTACGATCGG 24360
AGCGGCCCCG GTCTCATGGA ATGCTACTGT CGCTGCAACC TGTGCAGTCC TCACCGCTGC 24420
TTGGCGACCA ACCCCGCCCT GCTCAGCGAG ACCCAAGTTA TCGGTACCTT CGAGATTGAG 24480
GGCCTCCTG CTCAAGACGG ACAGCCGACC AAACCGCCCC TCAGGCTGAC TGCAGGTCTC 24540
TGGACTTCG CCTACCTGCG CAAATTTGTA CCGCAAGACT TCAACGCCCA CAAAATAGCC 24600
TTCTACGAAG ACCAATCCAA AAAGCCGAAA GTGACCCCCA GCGCTTGTGT CATCACTGAA 24660
GAAAAAGTTT TAGCCCAATT GCATGAAATT AAAAAAGGCG GGAAGACTT TCCTCTTAAA 24720
AAGGGGCACG GAGTGTATCT GGACCCTCAG ACCGGCGAGG AGCTGAAACG ACCCGCACCC 24780
TCGCGAGCTA GGAATGAAAC CCGCAGCAT GTGGGCAGOC GGGCCTTCG CGGCTCAGGC 24840
TTGGGAGGGC CAACAGCTGC CGCCACAGAC AGCGGGGCTG CAGCCGAGCA AGAGGGCTGT 24900
GAGGAAGGTA GTAGCTTCTC TGAATCCAC CGCGGCGCTG GAAGACATAT CCGAGGGGGA 24960
GGAAGGCTTC CCGCTGACGG ACGAGGAAGA CGGGGACACC CTGGAGAGCG ATTTCAGOGA 25020
CTTCACGGAC GAAGACGTCG AGGAGGAGGA TATGATTTCG ATACCCCGCG ACCAGGGGCA 25080
CTCGGCGAG CTCGAGGAGG GCGAAATTCC CGCAACGGTA GCGGCGACGG CGGTCAAGAA 25140
GGGCCAGGGC AAGAAGAGTA GGTGGGAACA GCAGGTCCGC TCACAGCGC CTCTAAAGGG 25200
CGCTAGAGGT AAGAGGAGCT ACAGCTCCTG GAAACCCCTC AAGCCCACTA TCCTTTTCATG 25260
CTTACTGCAG AGCTCCGGCA GCACTGCCTT CACTCGCGC TATCTGCTTT TTCGCCATGG 25320
CGTGTCCGTT CCCTCCAGGG TAATTCATTA CTATAATTCT TACTGCAGAC CCGAAGCTGA 25380
CCAAAACCGC CACTCAGAGC AAAAAGAGCC GCGGAGTGC CAGCGCGGGC CGCCTCGCC 25440
CTCCTCCTCT TCCTCCCAAG CGTGCTCGGG CGCCCCCGCG CCCCAGAGC CAGCGCATC 25500
AGGCGACGA CGCAAGCACC GAGGGCGCG ACAAGCTTCG GGAGCTGATC TTCCCACTC 25560
TCTATGCCAT ATTCCAACAA AGTCGCGCTC AGCGGTGTCA CCTCAAAGTG AAAAATAGAT 25620

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FIGURE 10

CCTTACGTTT ACTGACGCGC AGCTGCCTCT ACCACAACAA GGAGGAACAG CTCCAGCGAA 25680
CCCTAGCAGA CTCCGAGGCG CTTCTCAGTA AATACTGCTC TGCAGCTCCG ACACGATTCT 25740
CGCCGCCCTC TTATACCGAG TCTCCCGCCA AGGACGAATC CGGACCCGCC TAAACTCTCA 25800
GCATGAGCAA AGAAATTCCC ACACCTTATG TTTGGACCTT TCAACCTCAG ATGGGAGCGG 25860
CCGCAGGTGC CAGTCAAGAT TACTCGACCC GCATGAATTG GTTCAGCGCG GGACCTGATA 25920
TGATCCACGA CGTTAACAAC ATTCGTGACG CCCAAAACCG CATCCTTATG ACTCAGTCGG 25980
CCATTACCGC CACTCCCAGG AATCTGATTG ATCCCAGACA GTGGGCCGCC CACCTCATCA 26040
AACAACCCGT GGTGGGCACC ACCCACGTGG AAATGCCTCG CAACGAAGTC CTAGAACAAC 26100
ATCTGACCTC ACATGGCGCT CAAATCGCGG GCGGAGGCGC TCGGGCGAT TACTTTAAAA 26160
GCCCCACTTC AGCTCGAACC CTTATCCCGC TCACCGCCTC CTGCTTAAGA CCAGATGGAG 26220
TCTTTCAACT AGGAGGAGGC TCGCGTTCAT CTTTCAACCC CCTGCAAACA GATTTTGCCT 26280
TCCACGCCCT GCCCTCCAGA CCGCGCCACG GGGGCATAGG ATCCAGGCAG TTTGTAGAGG 26340
AATTTGTGCC CGCCGTCTAC CTCAACCCCT ACTCGGGACC GCCGGACTCT TATCCGGACC 26400
AGTTTATACG CCACTACAAC GTGTACAGCA ACTCTGTGAG CGGTTATAGC TGAGATTGTA 26460
AGACTCTCCT ATCTGTCTCT GTGCTGCTTT TCCGCTTCAA GCCCCACAAG CATGAAGGGG 26520
TTTCTGCTCA TCTTCAGCCT GCTTGTGCAT TGTCCOCTAA TTCATGTTGG GAOCATTAGC 26580
TTCTATGCTG CAAGGCCCGG GTCTGAGCCT AACGCGACTT ATGTTTGTGA CTATGGAAGC 26640
GAGTCAGATT ACAACCCAC CACGGTTCTG TGGTTGGCTC GAGAGACCGA TGGCTCCTGG 26700
ATCTCTGTTT TTTTCOGTCA CAACGGCTCC TCAACTGCAG CCCCCGGGGT CGTCOGGCAC 26760
TTTACTGACC ACAACAGCAG CATTGTGGTG CCCCAGTATT ACCTOCTCAA CAACTCACTC 26820
TCTAAGCTCT GCTGCTCATA CCGGCACAAC GAGCGTTCTC AGTTTAACTG CAAACAAGCT 26880
GAOGTOCTA OCTGTCAOGA GCOGGCAAG COGCTCACCC TCCOGTCTC CCCCCGCTG 26940
GGAAGTGCC ACCAAGCAGT CACTTGGTTT TTTCAAATG TACCCATAGC TACTGTTTAC 27000
CGAOCCTGGG GCAATGTAAC TTGGTTTTGT CCTOCTTCA TGTGTACCTT TAATGTCAGC 27060
CTGAACCTCC TACTTATTTA CAACTTTTCT GACAAAACCG GGGGGCAATA CACAGCTCTC 27120
ATGCACTCCG GAOCCTGCTT CCTCTTTCAG CTCTTTAAGC CAACGACTTG TGTCACCAAG 27180
GTGGAGGACC CGCOGTATGC CAACGACCG GCCTCGCCTG TGTGGCGCCC ACTGCTTTTTT 27240
GOCCTCGTCC TCTGCACCGG CTGCGCGGTG TTGTTAACCG CCTTCGGTCC ATCGATTCTA 27300
TCCGGTACCC GAAAGCTTAT CTCAGCCCGC TTTTGGAGTC CCGAGOOCTA TACCACCCTC 27360
CACTAACAGT CCCCCATGG AGCCAGACGG AGTTCATGCC GAGCAGCAGT TTATCCTCAA 27420
TCAGATTTCC TGOGCCAACA CTGCCCTCCA GCGTCAAAGG GAGGAACTAG CTTOCTTGT 27480

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FIGURE 1P

CATGTTGCAT	GCCTGTAAGC	GTGGCCTCTT	TTGTCCAGTC	AAAACCTACA	AGCTCAGCCT	27540
CAACGCCTCG	GCCAGCGAGC	ACAGCCTGCA	CTTTGAAAAA	AGTCCCTCCC	GATTCACCCT	27600
GGTCAACACT	CACGCCGGAG	CTTCTGTGCG	AGTGGCECTA	CACCACCAGG	GAGCTTCCGG	27660
CAGCATCCGC	TGTTCTGTGTT	CCCACGCCGA	GTGCCTCCCC	GTCTCTCTCA	AGACCCTCTG	27720
TGCCTTTAAC	TTTTTAGATT	AGCTGAAAGC	AAATATAAAA	TGGTGTGCTT	ACCGTAATTC	27780
TGTTTTGACT	TGTGTGCTTG	ATTTCTCCCC	CTGCGCCGTA	ATCCAGTGCC	CCTCTTCAAA	27840
ACTCTCGTAC	CCTATGCGAT	TCGCATAGGC	ATATTTTCTA	AAAGCTCTGA	AGTCAACATC	27900
ACTCTCAAAC	ACTTCTCCGT	TGTAGGTTAC	TTTCATCTAC	AGATAAAGTC	ATCCACCGGT	27960
TAACATCATG	AAGAGAAGTG	TGCCCCAGGA	CTTTAATCTT	GTGTATCCGT	ACAAGGCTAA	28020
GAGGCCCAAC	ATCATGCCGC	CCTTTTTTGA	CCGCAATGGC	TTTGTTGAAA	ACCAAGAAGC	28080
CACGCTAGCC	ATGCTTGTGG	AAAAGCCGCT	CACGTTTCGAC	AAGGAAGGTG	CGCTGACCCT	28140
GGGCGTCGGA	CGCGGCATCC	GCATTAACCC	CGCGGGGCTT	CTGGAGACAA	ACGACCTCGC	28200
GTCCGCTGTC	TTCCCACCGC	TGGCCTCCGA	TGAGGCCGGC	AACGTCACGC	TCAACATGTC	28260
TGACGGGCTA	TATACTAAGG	ACAACAAGCT	AGCTGTCAAA	GTAGGTCCCG	GGCTGTCCCT	28320
CGACTCCAAT	AATGCTCTCC	AGGTCCACAC	AGGCGACGGG	CTCACGGTAA	CCGATGACAA	28380
GGTGTCTCTA	AATAOCCAAG	CTOCCCTCTC	GACCAOCAGC	GCGGGCCTCT	COCTACTTCT	28440
GGGTCCCAGC	CTOCACTTAG	GTGAGGAGGA	ACGACTAACA	GTAAACACCG	GAGOGGGGCT	28500
OCAAATTAGC	AATAACGCTC	TGGCCGTAAA	AGTAGGTTCA	GGTATCACCG	TAGATGCTCA	28560
AAACCAGCTC	GCTGCATCCC	TGGGGGACGG	TCTAGAAAGC	AGAGATAATA	AAACTGTGCT	28620
TAAGGCTGGG	CCCGGACTTA	CAATACTAA	TCAAGCTCTT	ACTGTGTGCTA	COGGGAACGG	28680
OCTTCAGGTC	AACCCGGAAG	GGCAACTGCA	GCTAAACATT	ACTGCOGGTC	AGGGOCTCAA	28740
CTTTGCAAAC	AACAGCCTCG	CCGTGGAGCT	GGGCTCGGGC	CTGCATTTTC	COOCTGGCCA	28800
AAOCCAAGTA	AGCCTTTATC	COGGAGATGG	AATAGACATC	CGAGATAATA	GGGTGACTGT	28860
GCCCGCTGGG	CCAGGCCTGA	GAATGCTCAA	CCACCAACTT	GCCGTAGCTT	CCGGAGACGG	28920
TTTAGAAGTC	CACAGCGACA	CCCTCCGGTT	AAAGCTCTCC	CACGGCCTGA	CATTTGAAAA	28980
TGGCGCCGTA	CGAGCAAAAC	TAGGACCAGG	ACTTGGCACA	GACGACTCTG	GTCGGTCCGT	29040
GGTTCGCACA	GGTCGAGGAC	TTAGAGTTGC	AAACGGCCAA	GTCCAGATCT	TCAGCGGAAG	29100
AGGCACCGCC	ATCGGCACTG	ATAGCAGCCT	CACTCTCAAC	ATCCGGGGGC	CCCTACAATT	29160
TTCTGGACCC	GCCTTGACTG	CTAGTTTGCA	AGGCAGTGGT	CCGATTACTT	ACAACAGCAA	29220
CAATGGCACT	TTCGGTCTCT	CTATAGGCCC	CGGAATGTGG	GTAGACCAAA	ACAGACTTCA	29280

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FIGURE 1Q

GGTAAACCCA	GGCGCTGGTT	TAGTCTTCCA	AGGAAACAAC	CTTGTCCCAA	ACCTTGCGGA	29340
TCCGCTGGCT	ATTTCCGACA	GCAAAATTAG	TCTCAGTCTC	GGTCCCGGCC	TGACCCAAGC	29400
TTCCAACGCC	CTGACTTTAA	GTTTAGGAAA	CGGGCTTGAA	TTCTCCAATC	AAGCCGTTGE	29460
TATAAAAGCG	GGCCGGGGCT	TACGCTTTGA	GTCTTCCTCA	CAAGCTTTAG	AGAGCAGCCT	29520
CACAGTCGGA	AATGGCTTAA	CGCTTACCGA	TACTGTGATC	CGCCCCAACC	TAGGGGACGG	29580
CCTAGAGGTC	AGAGACAATA	AAATCATTGT	TAAGCTGGGC	GCGAATCTTC	GTTTTGAAAA	29640
CGGAGCCGTA	ACCGCCGGCA	CCGTTAACCC	TTCTGCGCCC	GAGGCACCAC	CAACTCTCAC	29700
TGCAGAACCA	CCCCCTCCGAG	CCTCCAACCTC	CCATCTTCAA	CTGTCCCTAT	CGGAGGGCTT	29760
GGTTGTGCAT	AACAACGCCC	TTGCTCTCCA	ACTGGGAGAC	GGCATGGAAG	TAAATCAGCA	29820
CGGACTTACT	TTAAGAGTAG	GCTCGGGTTT	GCAAATGCGT	GACGGCATT	TAACAGTTAC	29880
ACCCAGCGGC	ACTCCTATTG	AGCCCAGACT	GACTGCCCCA	CTGACTCAGA	CAGAGAATGG	29940
AATCGGGCTC	GCTCTCGGCG	CCGGCTTGGA	ATTAGACGAG	AGCGCGCTCC	AAGTAAAAGG	30000
TGGGCCCCGC	ATGCGOCTGA	ACCCTGTAGA	AAAGTATGTA	ACCCTGCTCC	TGGGTCTCTG	30060
CCTTAGTTTT	GGGCAGCOGG	CCAACAGGAC	AAATTATGAT	GTGCGCGTTT	CTGTGGAGCC	30120
CCCCATGGTT	TTGGGACAGC	GTGGTCAGCT	CACATTTTTA	GTGGGTCACG	GACTIONACAT	30180
TCAAAATTCC	AAACTTCAGC	TCAATTGGG	ACAAGGCCTC	AGAACTGACC	CCGTCACCAA	30240
CCAGCTGGAA	GTGCCCCCTG	GTCAAGGTTT	GGAAATTGCA	GACGAATCCC	AGGTTAGGGT	30300
TAAATTGGGC	GATGGOCTGC	AGTTTGATT	ACAAGCTCGC	ATCACTACCG	CTCCTAACAT	30360
GGTCACTGAA	ACTCTGTGGA	COGGAACAGG	CAGTAATGCT	AATGTTACAT	GGCGGGGCTA	30420
CACTGCCCCC	GGCAGCAAAC	TCTTTTTGAG	TCTCACTCGG	TTCACTGCTG	GTCTAGTTTT	30480
AGGAAACATG	ACTATTGACA	GCAATGCATC	CTTTGGGCAA	TACATTAAAG	CGGGACACGA	30540
ACAGATCGAA	TGCTTTATAT	TGTTGGACAA	TCAGGGTAAC	CTAAAAGAAG	GATCTAACTT	30600
GCAAGGCACT	TGGGAAGTGA	AGAACAACCC	CTCTGCTTCC	AAAGCTGCTT	TTTTGCCTTC	30660
CACCGCCCTA	TACCCCATCC	TCAACGAAAG	COGAGGGAGT	CTTCTCTGGA	AAAATCTTGT	30720
GGGCATGCAA	GCCATACTGG	GAGGCGGGGG	CACTTGCACT	GTGATAGCCA	CCCTCAATGG	30780
CAGACGCAGC	AACAACATATC	COGCGGGCCA	GTCCATAATT	TTCGTGTGGC	AAGAATTCAA	30840
CACCATAGCC	CGCCAACCTC	TGAACCACTC	TACACTTACT	TTTTCTTACT	GGACTTAAAT	30900
AAGTTGGAAA	TAAAGAGTTA	AACTGAATGT	TTAAGTGCAA	CAGACTTTTA	TTGGTTTTGG	30960
CTCACAACAA	ATTACAACAG	CATAGACAAG	TCATACCGGT	CAAACAACAC	AGGCTCTCGA	31020
AAACGGGCTA	ACCGCTCCAA	GAATCTGTCA	CGCAGACGAG	CAAGTCCTAA	ATGTTTTTTC	31080
ACTCTCTTCG	GGGCCAAGTT	CAGCATGTAT	CGGATTTTCT	GCTTACACCT	TTTAGACAG	31140

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FIGURE 1R

CAGTTTACAC TCATTTCCGT TAAAGGATTA CAACTGCGGC ATATGAGAAT TAAGTATATA 31200
CAACTATTGC CCTTTACCCA CAAACACTCC CCCCACGGGG TGCACCTGAT GTAGCTGCCC 31260
TCCTCAATCA TGAAAGTGCT ATTAAAGTAA ATTAAATGAA CATTATTAC ATACACGCTT 31320
CCCACATAGG CCAAAAAAAC AGAGGACAAC TTTGACAGCT CCCGCCTGAA ATACCAATAC 31380
ACTCTATCAA ACTGCGCACC GTGCACGCAC TGCTTTACCA GGCCTTGAAA GTAAACAGCG 31440
GCGGACCGAC ACTGCAAGCT TCTAGGCTTT GGGCAGTGGC AGTGAATATA TAGCCACTCC 31500
TCCCCATGCA CGTAGTAGGA ACGCCGCTTC CCGGGAATCA CAAATGACAA GCAGTAGTCA 31560
CAGAGGCAAC TAGTCAAGTG AGCGTCCTCC TGAGGCATGA TTACCTTCCA TGGAATGGGC 31620
CAGTGAATCA TAGTGGCAAA GCCAGCTGCA TCTGGAGCGC TGCGAACCTT GGCTACATGT 31680
GGTGATTGGC GACGCAGATG GAGACAGGAC CTTGCATTCT GAAGACCACT GCAACAGCTT 31740
CTGCGTACGC TTGTATTTAC AGTACATAAA AAAGCACTTT TGCCACAGAG CGGTCTTACT 31800
CAACCGACAG CTTTTTCTT TCTGACGCTG CCTTCTGCTA CTCAGGTAGT ACAAGTCCAA 31860
AAGAGCCAAA CGGACACTCA AATCCGGGTT ATCTCGATGC TGAAGCCAGA GTCCAAAAGT 31920
AACCACGCTA AAAGCCTGCA TCCATATTTT GTAAGTCTG TAACTCCATC CCAGAGCCGG 31980
GCACCGCACT TGGTCCACCA TAGCTGCAAA CAAACGGGAC AATTAAGGAA AGTAAAATGA 32040
GOGCTGGGGG CGGACTCTTC TCCCGTTGCT AGGAAACAGC CACGTATCAA ACACCTTTT 32100
CAACACTGGC TCTCCAGCCG CTACTCGTTG AATTAATTG TOOCTGTGCT CAAACAACCC 32160
ACACTGGTAA CGGTGGTGGC TAGGCAAACA TGTCAAATAG CACATAATCA TTCTCTTAC 32220
TTTAAGCAAA CATCGACTAG CAGACACTTC ACTTAATTCA GCACAGTCAT AGCAAGGAAT 32280
GATTATACAC TTGTCATCTA ATCCACTGCC CATGTACACA TTGCCCCAGG CAAAAGTGGG 32340
CAGGGACTTT AAGAGCTGAT TGCTCGCCCC GACATAGTTG GTAAAATACA GCAAATGCAC 32400
CTTGTTAACA TACACACTCC CCACATAGTA AATATACGA GTAGACAGCT TAGAAAGCTC 32460
CCTCCGAAAA AATGGGAACA TGGTATCAAA GGCAGTGCC GCAACACACA TCTTGAACAG 32520
ATCCATCAGG ATAGTAGCTC GACACAGCCC CTGCAGACTT TGGTCAGCTT GCTTGCTGCA 32580
GCAGTACACT CTCCACGTAG CATCTCOGCT GATGAAGTAT TCGCTATCGC AGCGACCAAA 32640
AATACAGCAA TCACAAGGCA GACGCAACAG TCTTTCATCC AGACTGTTCA TGAGAGGCTT 32700
TAGAGGTATG GGAAAAATC CAAAGTGCTC AAAATAAGCA GCGCTGGGCT CATTCTGACA 32760
TTCCCCAAC ATGCTGAGTC GAACCATAGC ACAGTCATAC AACTCAGCT GTCGGAATTG 32820
ATCTTCATG ATTGAGTTTC TACTGAGATA TTATCTCAAA CTAAAACTG TTGCTACCA 32880
ACTCTATGCG AACTTGCTCA AGAAGCTCTT GGTTTAGGGC GACCTCTTCT GGTGCTCGGA 32940

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FIGURE 1S

AGTTACTGAT GGAACAACAA GCGCCGCCCA ACTTCAAATT TCCAGCCGAC CCAATCCAGT 33000
GGTCTCTCAA CTCACGCGCA CAAGCTACTA TGCAGTCCTC ACTTTCGTCA AAGTCAGCAG 33060
CGCCTATAGA AATCAACACA CTGAGTCCAC CATCTTCAGC TTTTAAGGGA TAACAGCTGA 33120
TAGCAAAGTG GTTCTGAGAC CACGGCAAAG CACGTAGGAA TTGCTGTAA GTTAATTTCC 33180
AAACACCGCT GAAGCAGCTC TATGGTTGCT GGACATATGT CCTCTGCATA GAAGCTTTGA 33240
ACATAACTTA AGACAGGGCC GGGCACATGA AACACAAACA GAGAACTATA CACAATCTGG 33300
GCCATGATCA CTCACATTTA AATAGCAGCT GAAAAGTGGC TTTCTTCACT TGGGAGCAAA 33360
ATTAGCGAAG ACTGTGCCAG AATGCTCAG TCGAAAGGCG GTGGGTCTCG CAGAGGCAGG 33420
TTCGGAGCTC TAATTAAACA CAGGTGGGTA ATCCAGTCAA CGATGAGGAC CAGCTGAAAA 33480
GTGGCTTTCT TCACTTGGGA GCAAAATTAG CGAAGACTGT GCCAGAATGC TCACGTCGAA 33540
AGGCGGTGGG TCTCGCAGAG GCAGGTTCGG AGCTCTAATT AAACACAGGT GGGTAATCCA 33600
GTCAACGATG AGGACTTTTA AAAAAGTGT TAAAAGTGA GCAGTTAAGT TAGAGGCAGA 33660
CACAGAAAAA ACTACAGTTA AACTATCAGT TGCTGAAATT GAAAAGCACC CAATAATTAT 33720
GCGCGAGGGC ACAGGCAATA AAAGTGTTAG CCCCTCGGCT AACGCGTCAG CTAAAAATC 33780
TTTAGCTAAA GTATCTACTG GCGCGTGGT AAAAGTTTGA ATATAATTTA CGACAGGAGC 33840
TGGCAAGTGA AACTCCACAA AAAAAGTAAA TGGCTGCACA CACGCCATTA TTTGAAAAT 33900
AAGAAGTACT CACAAAATCA GCTGGAGCTG CCGCAAGTGA AAAAGACCAG CTGAAGTCTT 33960
ATTTTAAACT GTAAAATATA AAAAAAAAAA TAGGGCGTGA ACAAAAATGA GAAAATAATA 34020
COGGATATGA CTATTAAGGG CGTACACTGA AACTGGGTAA TATTTGAGAA AAAGATTAA 34080
ATAATAGCTG AACAAATGTT GTGTGCAGAA CACGGAAQAA TGGTGGCGAA AAAAAAAAC 34140
AGTGTAAGCA CATGGGCGC ACGTACTTCC GTGAGAAAAA TTAAAAAAT TTACCCAGTA 34200
TAAGGTGCGT CATTAGACCC GCCTTGTGGC GCGGTTGTAG COCTGOCCTT TGCCCCGCC 34260
CGCGCGCGC CCCGCGCGC GCOCCGCGC CCCTCAGCCC CGCCAGCGC CGCGCCTCC 34320
GCGACGCGT CCGCCCCACA GTTACGTCAG CACGCCACGC TCGCCGTCGT TCGTCATAA 34380
ATGACGTGGC AAAAATGATT GGCAGTTGGA CCGCTGCCAT CAGTGTACTG TAGATTATTG 34440
ATGATG 34446

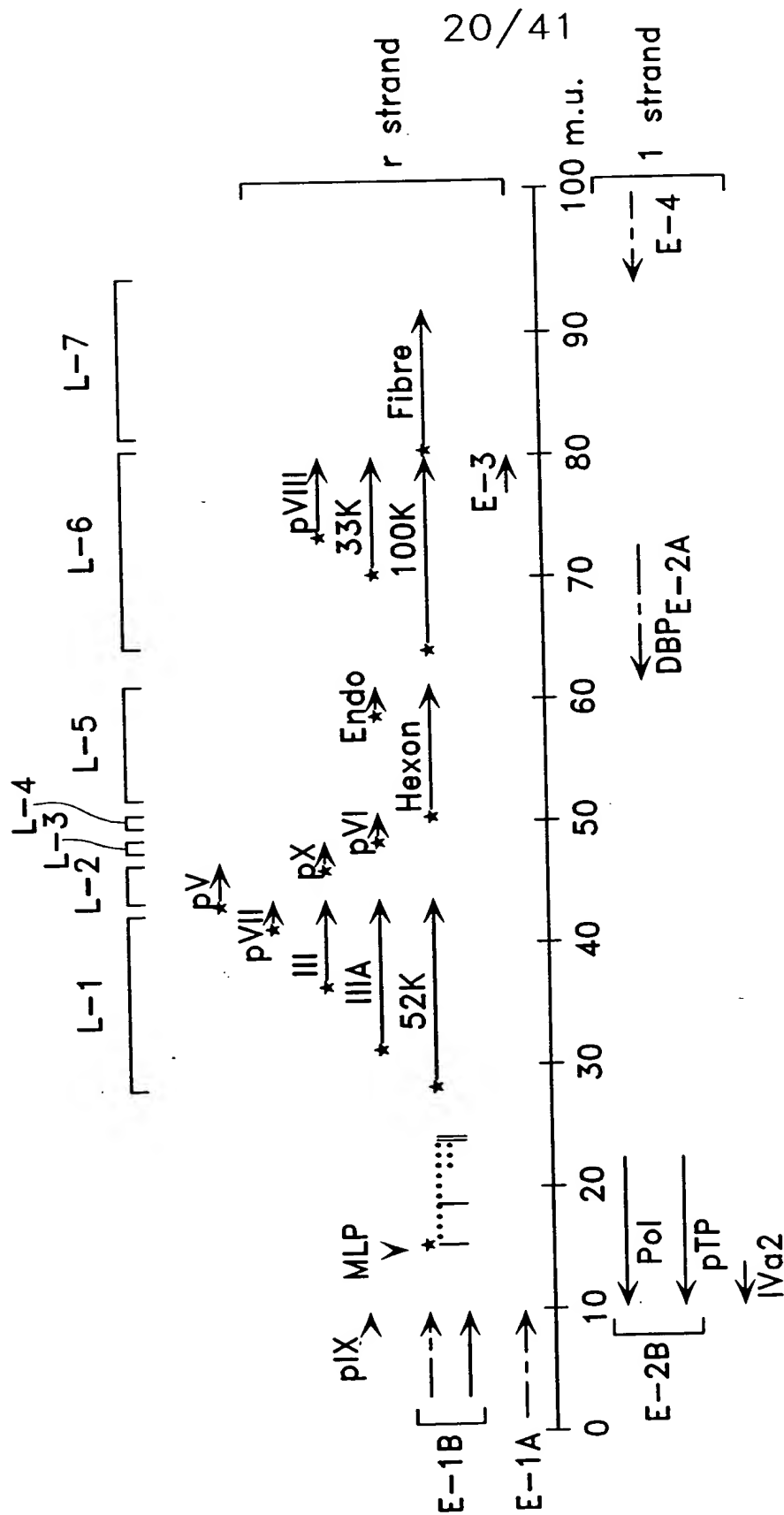


FIGURE 2

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Construction of BAV600

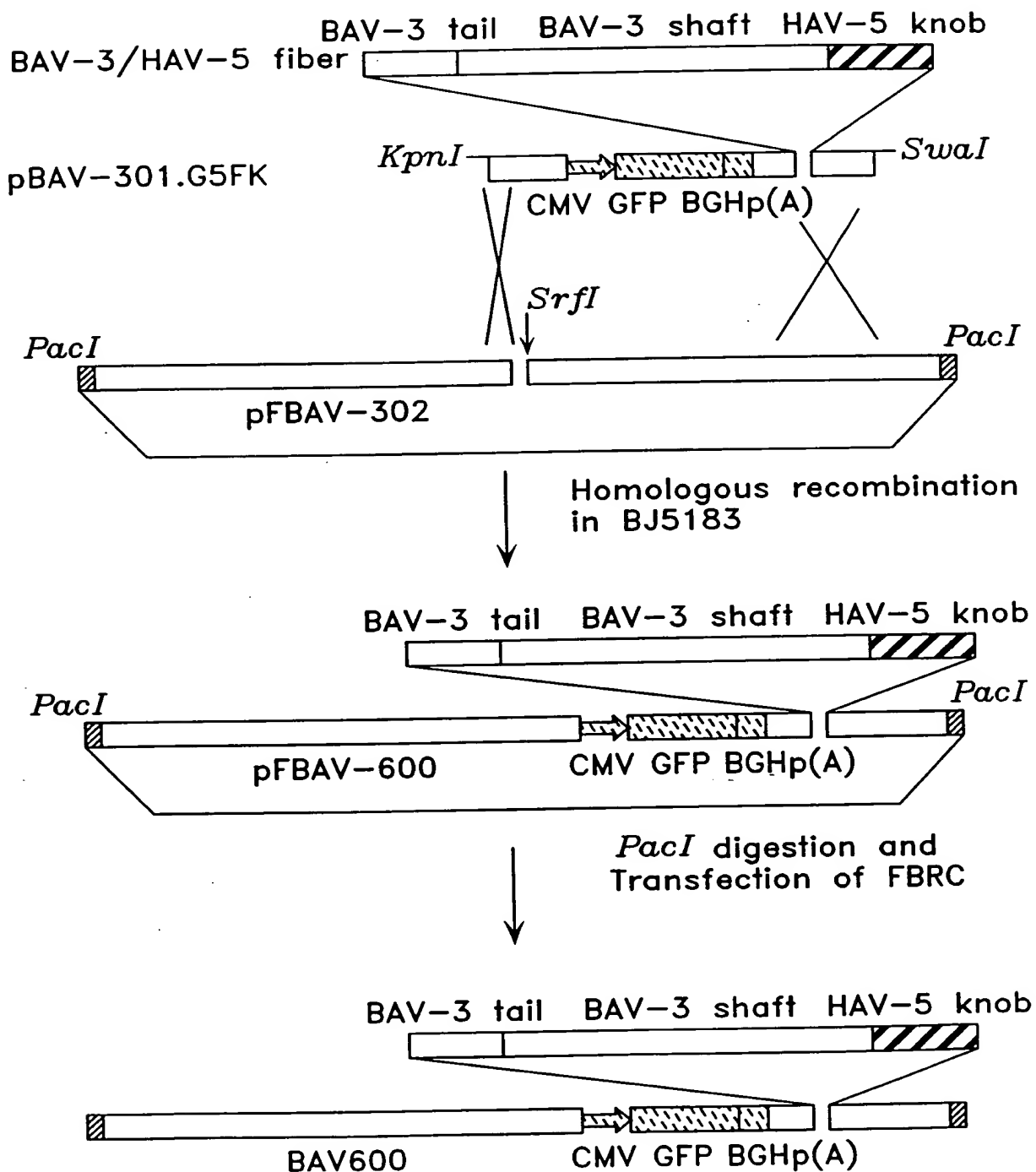


FIGURE 3

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Characterization of BAV600

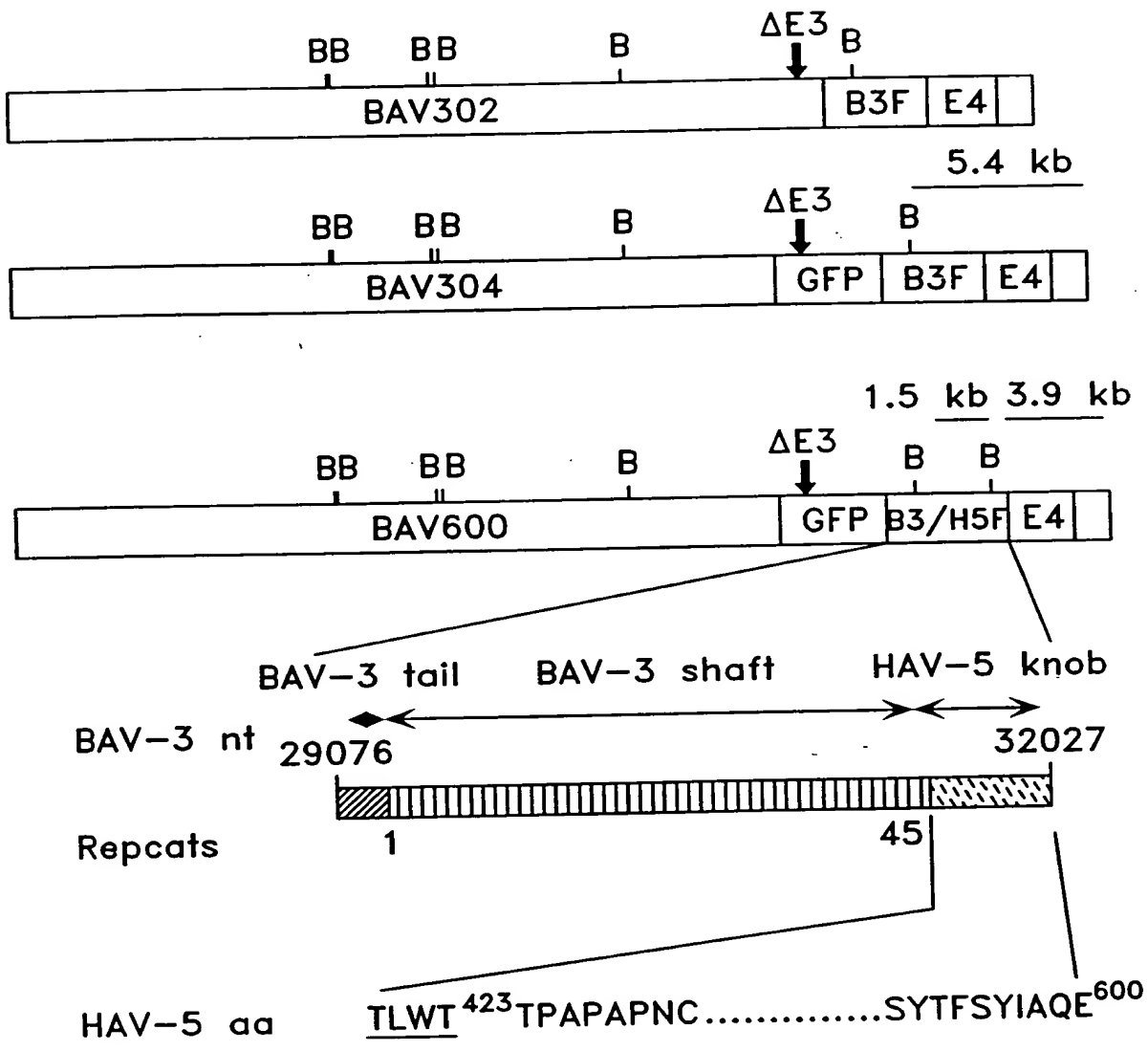
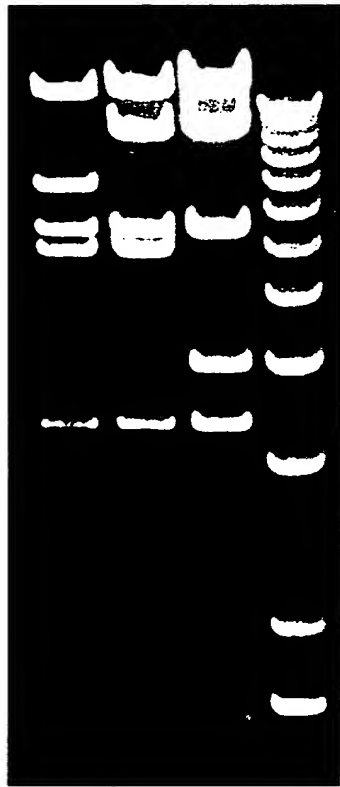


FIGURE 4

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Analysis of BAV600 by Restriction Enzyme *Bgl* II Digestion

1 2 3



Lane 1. BAV302
2. BAV304
3. BAV600

1 2 3

Figure 5A

Figure 5B

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Expression of HAV-5 Fiber Knob by BAV600

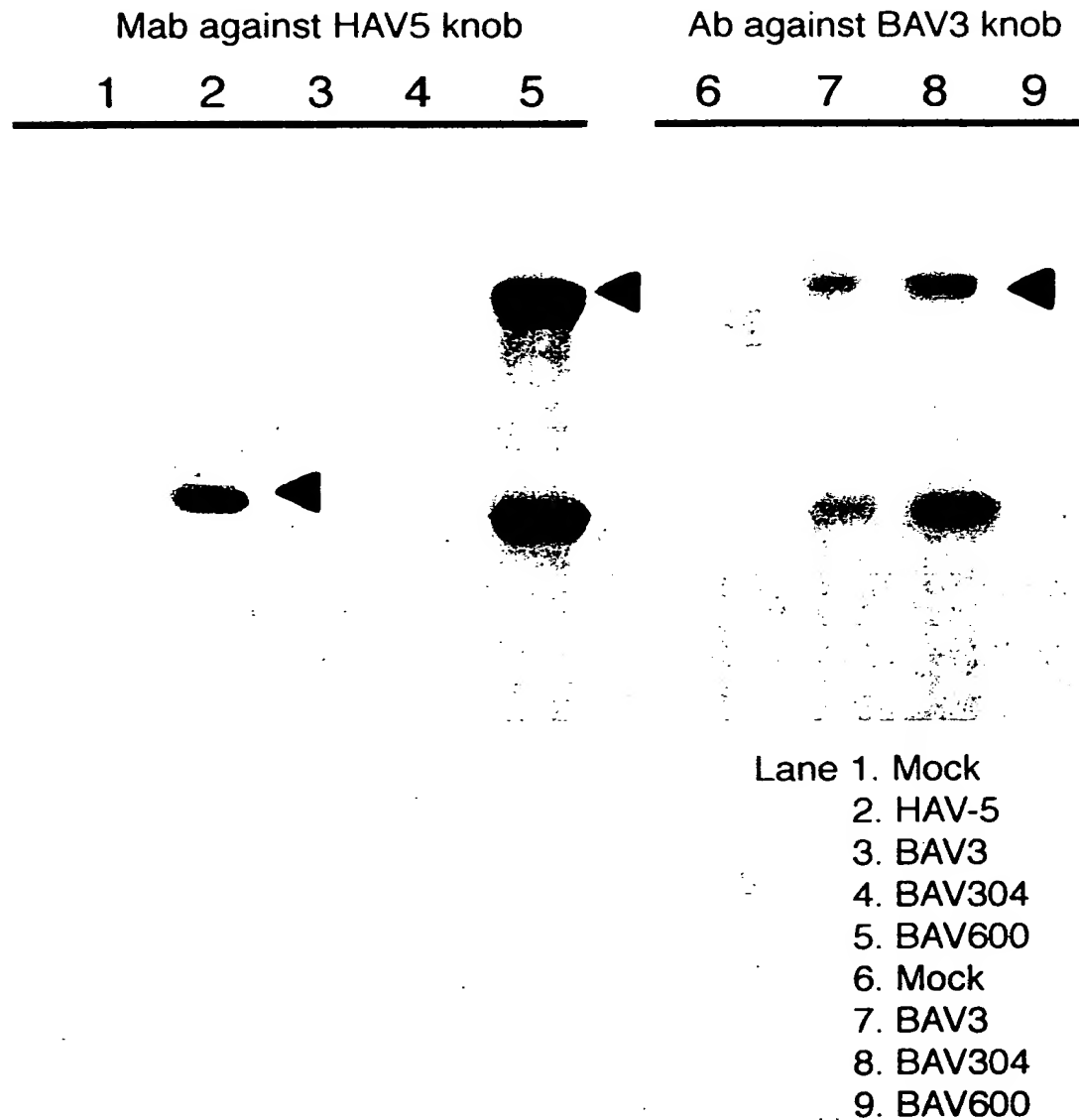
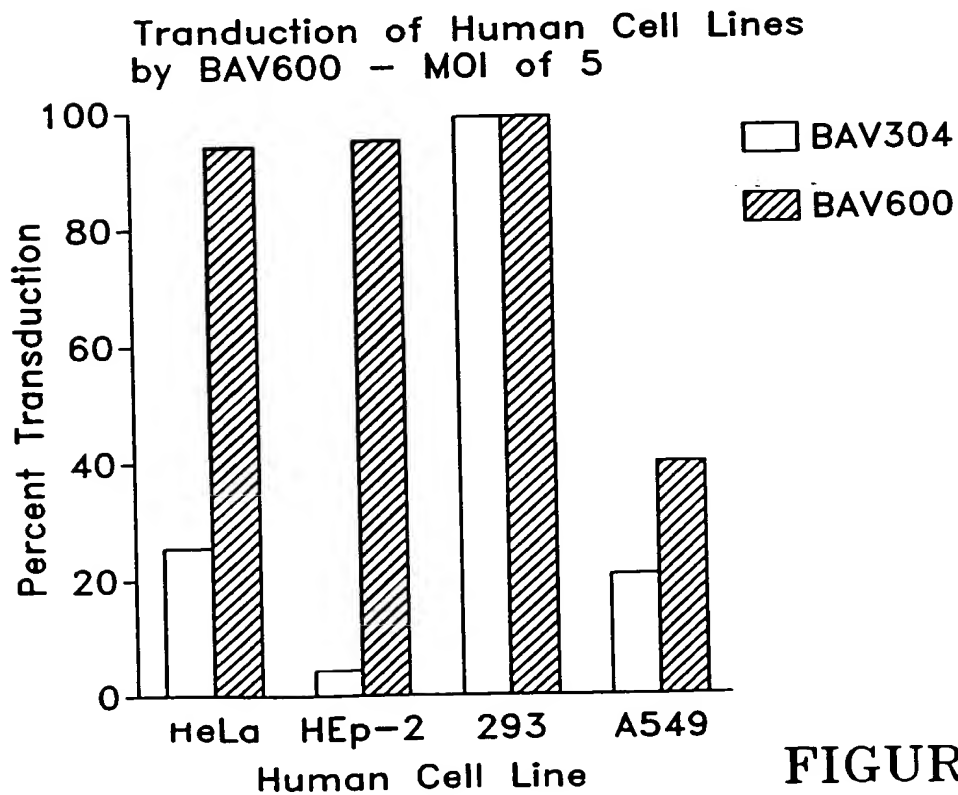
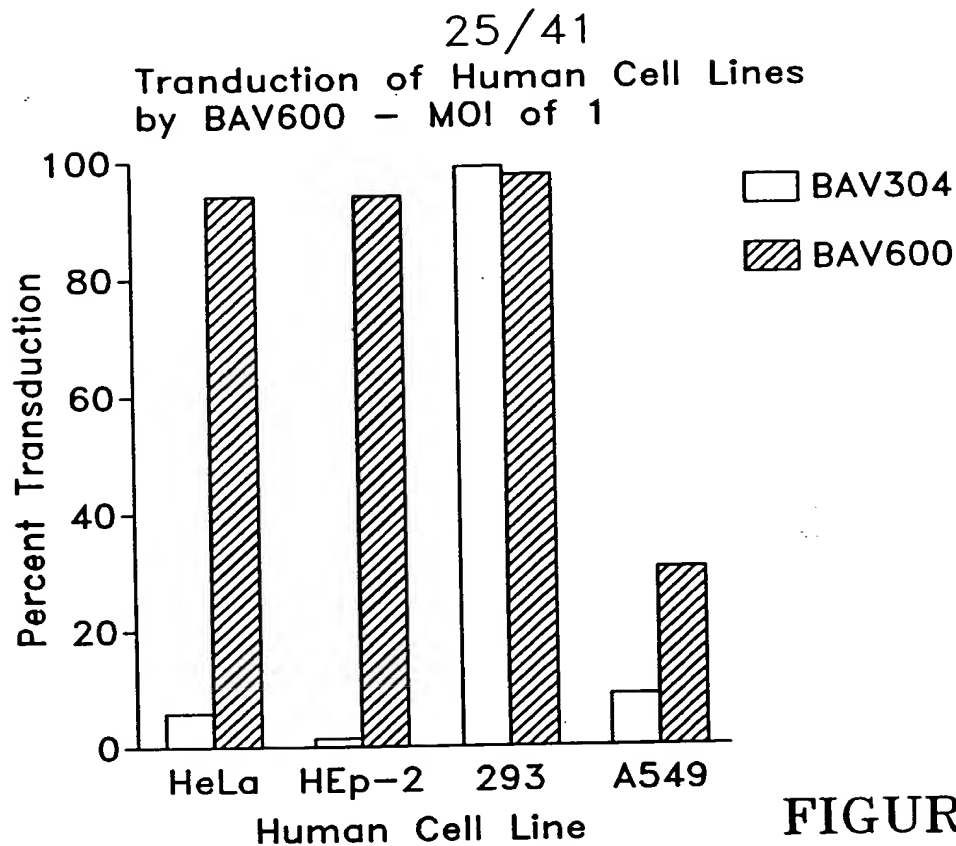


Figure 6



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FACS ANALYSIS OF BAV304 AND BAV600 TRANSDUCTION OF HUMAN CELLS

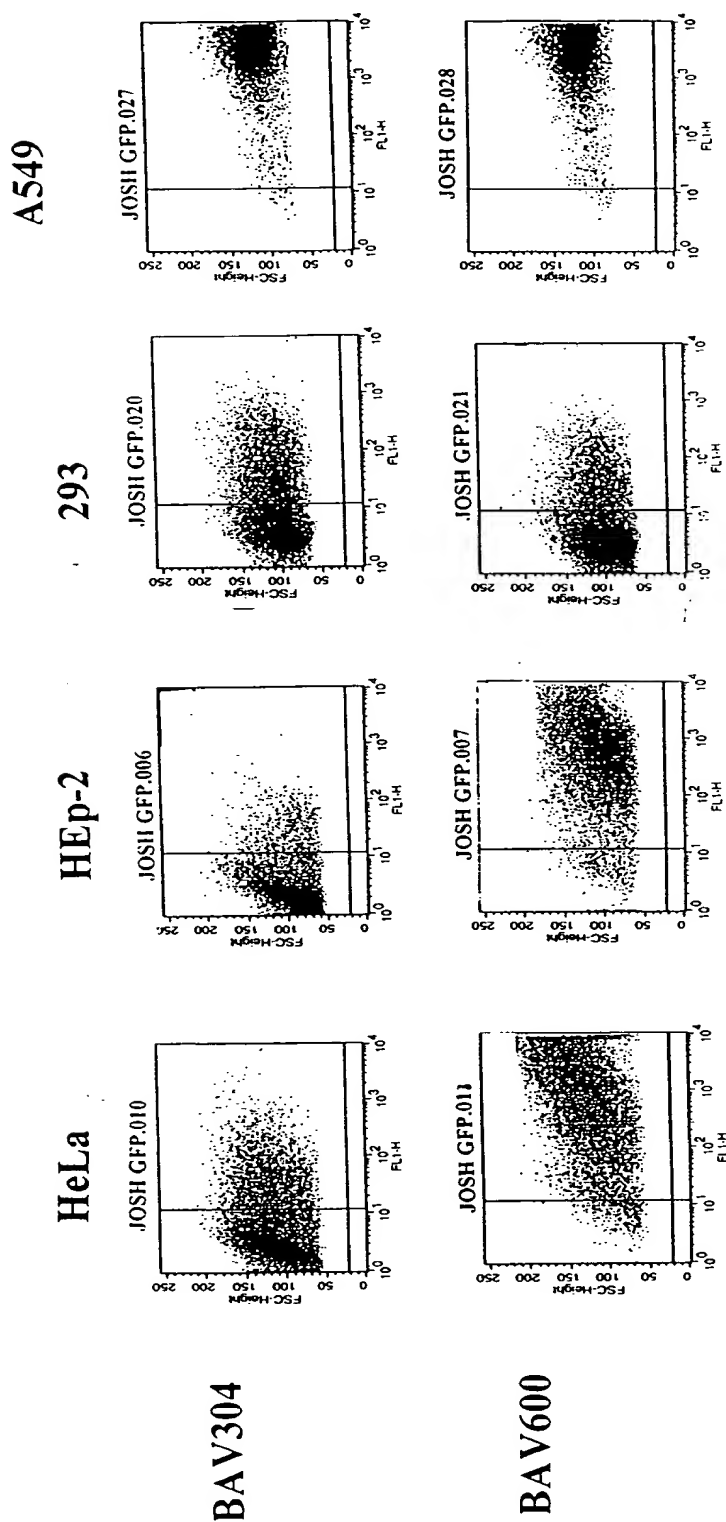


FIGURE 8

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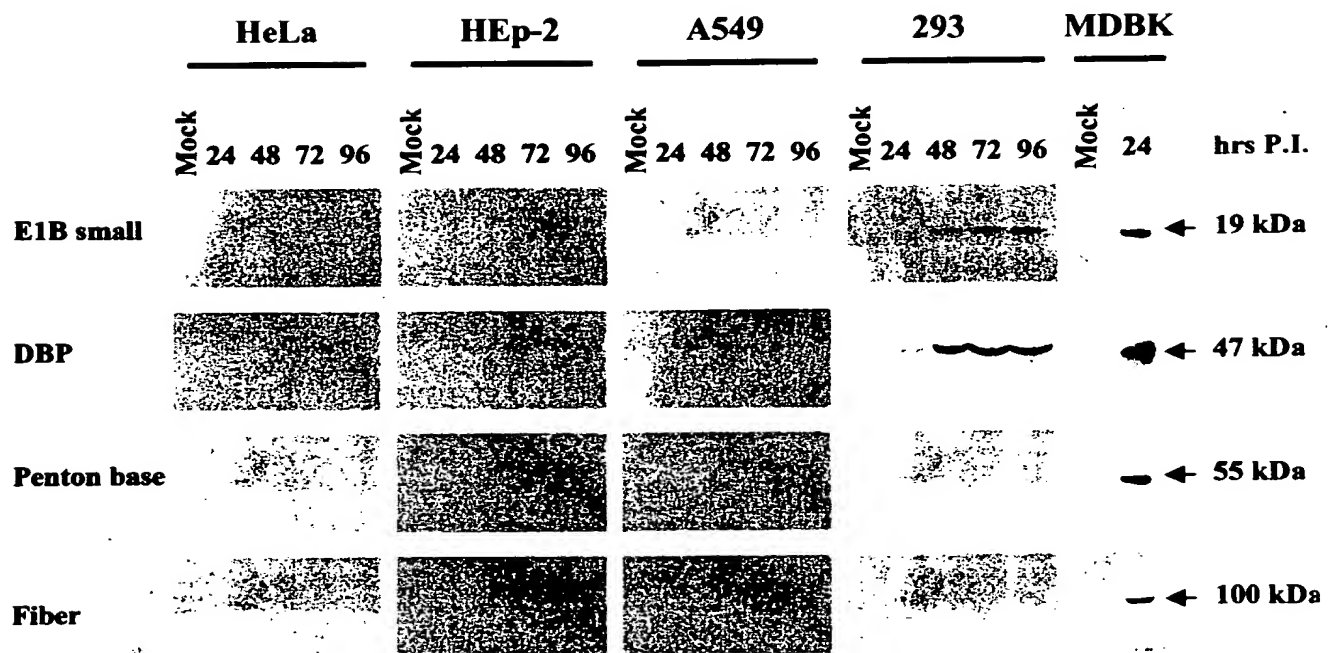


Figure 9

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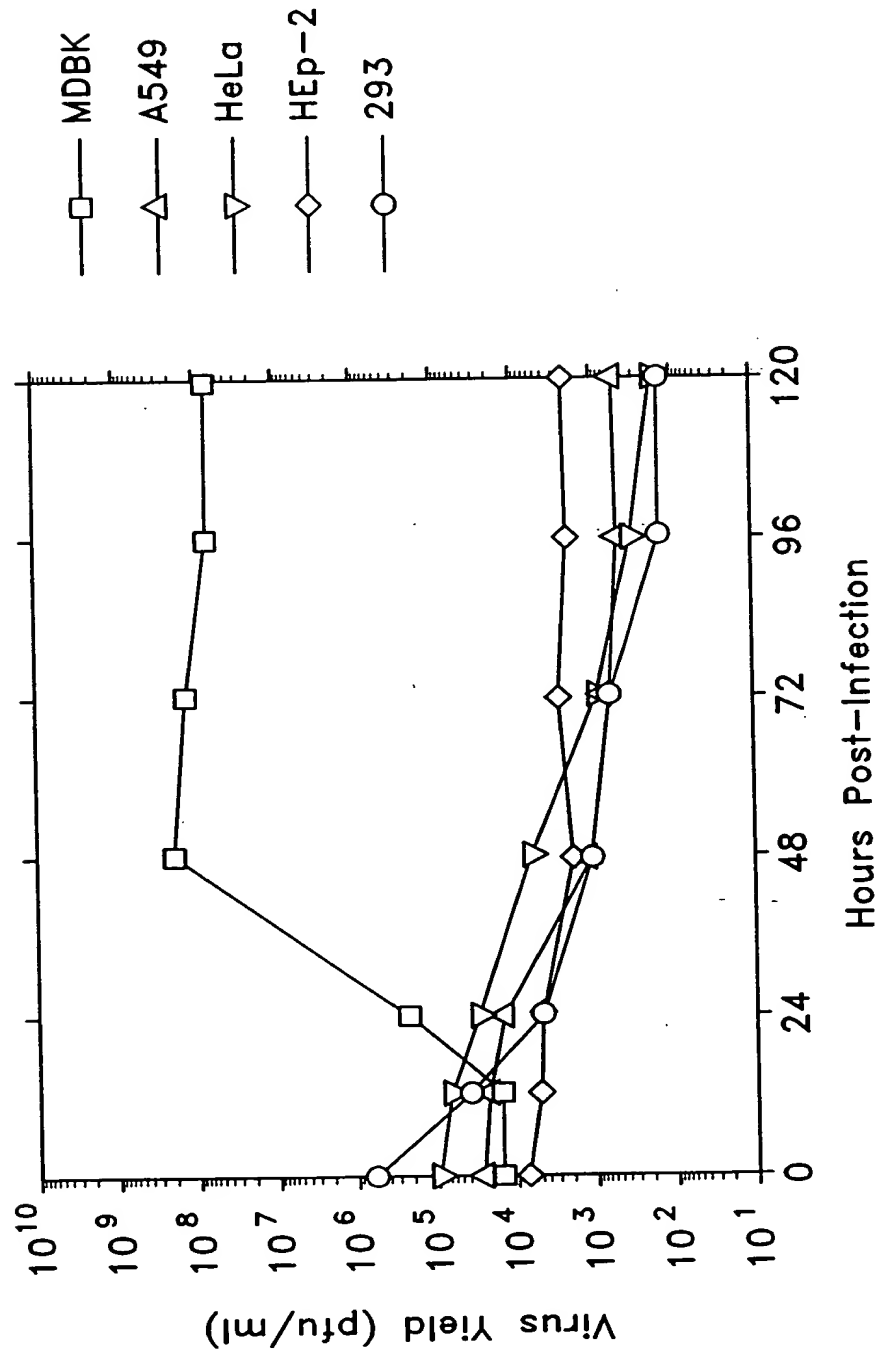


FIGURE 10

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Virus	
BAV-3	BAV600
Normal Rabbit Serum	<1:50
Rabbit Antiserum against BAV3 FK	<1:50
Monoclonal Ab against BHV gD (2C8)	<1:50
Monoclonal Ab against HAd5 FK (1D6.14)	1:3,200

FIGURE 11

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FIGURE 12

10 20 30 40
MSVSSCSCPSAPTIFMLLOMKRARPSEDTFNPVVPYDTET 40
GPPTVPFLTTPPFVSPNGFOESPPGVLSRLSEPLVTSNGM 80
LALKMGNGLSLDEAGNLTSQNVTTVSPPLKKTKSNINLEI 120
SAPLTVTSEALTVA AAAAPLMVAGNTLT MOSQAPLTVHDSK 160
LSIATOGPLTVSEGKLALOTSGPLTTTDSSTLTITASPL 200
210 220 230 240
TTATGSLGIDLKEPIYTONGKLGLKYGAPLHVTDDLNTLT 240
VATGPGVTINNTSLQTKVTGALGFD SQGNMQLNVAGGLRI 280
DSQNRRLILDVSYPFDAQNQLNLRLGQGPLFINSAHNLDI 320
NYNKGLYLFTASNNSKKLEVNLSTAKGLMFDATAIAINAG 360
DGLEFGSPNAPNTNPLKTKIGHGLEFDSNKAMVPKLG TGL 400
410 420 430 440
SFDSTGAITVGKNNDKLT LWTPAPSPNCRLNAEKDAKL 440
TLVLTKCGSQILATVSVLAVKGSLAPISGTVQSAHLIIRF 480
DENGVL LNNSFLDPEYWNFRNGDLTEGTAYTNAVGFMPNL 520
SAYPKSHGKTAKSNIVSQVYLN GDKTKPVTLTITLNGTQE 560
TGDTTPSAYSMSFSWDWSGHNYINEIFATSSYTFSYIAQE 600

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FIGURE 13

10 20 30 40
MKRSVPODFNLVYPYKAKRPNIMPPFFDRNGFVENOEATL 40
AMLVEKPLTFDKEGALTLGVGRGIRINPAGLLETNDLASA 80
VFPPLASDEAGNVTNLMSDGLYTKDNKLAVKVGPGLSLDS 120
NNALQVHTGDGLTVTDDKVS LNTQAPLSTTSAGLSLLLGP 160
SLHLGEEERLTVNTGAGLOISNNALAVKVGSGITVDAQNO 200
210 220 230 240
LAASLGDGLESRDNKT VVKAGPGLTITNQALTVATGNGLO 240
VNPEGQLQLNITAGQGLNFANNSLAVELGSGLHFPPGQNO 280
VSLYPGDGIDIRDNRVTVPAGPGLRMLNHQLAVASGDGLE 320
VHSDTLRLKLSSHGLTFENGAVRAKLGPGGTDDSGRSVVR 360
TGRGLRVANGQVOIFSGRGTAIGTDSSLTLNIRAPLOFSG 400
410 420 430 440
PALTASLQSGPITYNSNGTFGLSIGPGMWVDQNRLOVN 440
PGAGLVFQGNLVPNLADPLAISDSKISLSLGPGLTQASN 480
ALTLSLGNGLFEFSNQAVAIKAGRGLRFESSSQALESSLTV 520
GNGLTLTDTVIRPNLGDGLEVRDNKIIVKLGANLRFENGA 560
VTAGTVNPSAPEAPPTLTAEPLRASNSHLQLSLSEGLVV 600
610 620 630 640
HNNALALQLGDGMEVNQHGLTLRVGSGLOMRDGILTVTPS 640
GTPIEPRLTAPLTQTENGIGLALGAGLELDESALQVKVGP 680
GMRLNPVEKYVTLLLGPGLSFGQPANRTNYDVRVSVEPPM 720
VFGQRGQLTFLVGHGLHIQNSKLQLNLGQGLRTDPVTNQL 760
EVPLGGGLEIADESQVRVKLGDGLOFDSQARITTAPNMVT 800
810 820 830 840
ETLWTGTGSNANVTWRGYTAPGSKLFLSLTRFSTGLVLGN 840
MTIDSNASFGQYINAGHEOIECFILLDNQGNLKEGSNLOG 880
TWEVKNPNPSASKAAFLPSTALYPILNESRGSPLPGKNLVGM 920
QAILGGGGTCTVIATLNGRRSNYPAGOSIIFVWQEFNTI 960
AROPLNHSTLTFSYWT 976

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FIGURE 14

10 20 30 40
MKRARWDPVYPFSEERLVPLPPFIEAGKGLKSEGLILSLN 40
FTDPITINOTGFLT VKLGDGIFINGEGGLSSTAPKVKVPL 80
TVSDETLQLLLSNSLT TESDSLALKOPOLPLKINDEGLSV 120
LNLNTPLNLONERLSLNVSNPLKIAADSLTINLKEPLGLO 160
NESLGLNLSDPMNITPEGNLGIKLNPMKVEESSLALNYK 200
210 220 230 240
NPLAISNDALSINIANPLTVNTSGSLGISYSTPLRISNNA 240
LSLFIGKPLGLGTDGSLTVNLTRPLVCRONTLAINYSAPL 280
VSLQDNLTLSYAQPLTVSDNSLRSLNSPLNTNSDGKLSV 320
NYSNPLVVTDSNLTLSVKKPVMINNTGNVDLSFTAPIKLN 360
DAEQLTLETTEPLEVADNALKLKLKGKGLTVSNNALTLNLG 400
410 420 430 440
NGLTFQOGLLQIKTNSSLGFNASGELSTATKQGTITVNFL 440
STTPIAFGWQIIPTTVAFIYILSGTQFTPOSPVTSLGFP 480
PQDFLDFVLSPFVTSVTQIVGNDVKVIGLTISKNOSTIT 520
MKFTSPLAENVPVSMFTAHOFRQ. 544

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FIGURE 15

10 20 30 40
MGPKKOKRELPEDFDPVYPYDVPOLQINPPFVSGDGFNQS 40
VDGVLSLHIAPPLVFONTRALTAFGGGLQLSGKQLVVAT 80
EGSGLTTNPDGKLVKVKSPITLTAEGISLSLGPGLSNSE 120
TGLSLOVTAPLOFOGNALTLPLAAGLONTDGGMGVKLGSG 160
LTTDNSOAVTVOVGNGLOLNGEGQLTVPATAPLVSGSAGI 200
210 220 230 240
SFNYSSNDFVLDNDSLRLPKAISVTPPLOSTEDTISLNY 240
SNDFSVDNGALTLAPTFKPYTLWTGASPTANVILTNTP 280
NGTFFLCLTRVGGLVLGSFALKSSIDLTSMTKKVNFIFDG 320
AGRLOSDSTYKGRFGFRSNDSVIEPTAAGLSPAWLMPSTF 360
IYPRNTSGSSLTSFVYINQTYVHVDIKVNTLSTNGYSLEF 400
410 420 430 440
NFQNMFSAPFSTSYGTFCYVPRRTTHRPRHGPFSLRERR 440
HLFOLLQO 448

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FIGURE 16

10 20 30 40
MKRTRRALPANYDPVYPYDAPGSSTOPPFFNNKOGLTESP 40
PGTLAVNVSPPLTFSTLGAIKLSTGPGLTLNEGKLOASLG 80
PGLITNTEGOITVENVNKVLSTPLHKNENTVSLALGDG 120
LEDENGLKVTFTPTPPPLQFSPPLTKTGGTVSLPLQDSM 160
QVTNGKLGVKPTTYAPPLKKTDQOVSLQVSGSLTVINEQL 200
210 220 230 240
QAVQPPATTYNEPLSKTDNSVSLQVGAGLAVQSGALVATP 240
PPPLTFTSPLEKNENTVSLQVGAGLSVQNNALVATPPPPL 280
TFAYPLVKNDNHVALSAGSGLRISGGSLTVATGPGLSHQN 320
GTIGAVVGAGLKFENNAI LAKLGNGLTIRDGAIEATQPPA 360
APITLWTGPGPSINGFINDTPVIRCFICLTRDSNLVTVNA 400
410 420 430 440
SFVGEGGYRIVSPTQSQFSLIMEFDQFGQLMSTGNINSTT 440
TWGEKPWGNNTVQPRPSHTWKLCPNREVYSTPAATISRC 480
GLDSIAVDGAPSRSIDCMLIINKPKG VATYTLTFRFLNFN 520
RLSGGT LFKTDVLTFTYVGENO 542

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FIGURE 17A

	M	K	R	S	R	X	X	X	P	X	P	X	D	P	X	X	L	Y	P	X	P	X	X	X	P	Q	X	D	X	F	Majority
	10										20										30										
1	M	S	V	S	S	C	S	C	P	S	A	P	T	I	F	M	L	L	Q	M	K	R	A	R	P	S	E	D	T	F	HAd5F.PRO
1	M	K	R	S	V	P	Q	D	F	N	L	V	P	Y	K	A	K	R	P	N	I	M	P	P	F	F	D	R	N	BAV3F.pro	
1	M	G	P	K	K	Q	K	R	E	L	P	E	D	F	D	P	V	Y	P	Y	D	V	P	Q	L	Q	I	N	P	P	PAV3F.pro
1	M	K	R	T	R	R	A	L	P	A	N	Y	D	P	V	Y	P	Y	D	A	P	G	S	S	T	Q	P	P	F	F	CAV2F.pro
1	M	K	R	A	R	W	D	P	V	Y	P	F	S	E	E	R	L	V	P	L	P	P	F	I	E	A	G	K	G	L	OAd287.PRO
	N	X	V	G	X	X	X	X	X	X	X	X	X	V	X	X	X	L	T	P	P	F	L	X	X	X	L	G	X	X	Majority
	40										50										60										
31	N	P	V	Y	P	Y	D	T	E	T	G	P	P	T	V	P	F	L	T	P	P	F	V	S	P	N	G	F	Q	E	HAd5F.PRO
31	G	F	V	E	N	Q	E	A	T	L	A	M	L	V	E	K	P	L	T	F	D	K	E	G	A	L	T	L	G	V	BAV3F.pro
31	F	V	S	G	D	G	F	N	Q	S	V	D	G	V	L	S	L	H	I	A	P	P	L	V	F	D	N	T	R	A	PAV3F.pro
31	N	N	K	Q	G	L	T	E	S	P	P	G	T	L	A	V	N	V	S	P	P	L	T	F	S	T	L	G	A	I	CAV2F.pro
31	K	S	E	G	L	I	L	S	L	N	F	T	D	P	I	T	I	N	Q	T	G	F	L	T	V	K	L	G	D	G	OAd287.PRO
	X	X	X	X	G	X	G	G	L	L	L	E	G	K	X	X	X	V	X	X	X	G	L	X	L	T	T	X	L	X	Majority
	70										80										90										
61	S	P	P	G	V	L	S	L	R	L	S	E	P	L	V	T	S	N	G	M	L	A	L	K	M	G	N	G	L	S	HAd5F.PRO
61	G	R	G	I	R	I	N	P	A	G	L	L	E	T	N	D	L	A	S	A	V	F	P	P	L	A	S	D	E	A	BAV3F.pro
61	L	T	L	A	F	G	G	L	Q	L	S	G	K	Q	L	V	V	A	T	E	G	S	G	L	T	T	N	P	D	PAV3F.pro	
61	K	L	S	T	G	P	G	L	T	L	N	E	G	K	L	Q	A	S	L	G	P	G	L	I	T	N	T	E	G	Q	CAV2F.pro
61	I	F	I	N	G	E	G	L	S	S	T	A	P	K	V	K	V	P	L	T	V	S	D	E	T	L	Q	L	L	OAd287.PRO	
	G	X	V	X	L	N	X	K	S	X	S	X	T	T	X	X	P	X	L	X	K	T	G	S	G	L	S	L	D	X	Majority
	100										110										120										
91	L	D	E	A	G	N	L	T	S	Q	N	V	T	T	V	S	P	P	L	K	K	T	K	S	N	I	N	L	E	I	HAd5F.PRO
91	G	N	V	T	L	N	M	S	D	G	L	Y	T	K	D	N	K	L	A	V	K	V	G	P	G	L	S	L	D	S	BAV3F.pro
91	G	K	L	V	L	K	V	K	S	P	I	T	L	T	A	E	G	I	S	L	S	L	G	P	G	L	S	N	S	E	PAV3F.pro
91	I	T	V	E	N	V	N	K	V	L	S	F	T	S	P	L	H	K	N	E	N	T	V	S	L	A	L	G	D	G	CAV2F.pro
91	L	S	N	S	L	T	T	E	S	D	S	L	A	L	K	Q	P	Q	L	P	L	K	I	N	D	E	G	S	L	V	OAd287.PRO
	L	N	L	L	T	V	T	T	X	X	L	X	X	X	X	A	P	L	X	P	L	X	X	A	L	X	S	T	T	Majority	
	130										140										150										
121	S	A	P	L	T	V	T	S	E	A	L	T	V	A	A	A	A	P	L	M	V	A	G	N	T	L	T	M	Q	S	HAd5F.PRO
121	N	N	A	L	Q	V	H	T	G	D	G	L	T	V	T	D	D	K	V	S	L	N	T	Q	A	P	L	S	T	T	BAV3F.pro
121	T	G	L	S	L	Q	V	T	A	P	L	Q	F	Q	G	N	A	L	T	L	P	L	A	A	G	L	Q	N	T	D	PAV3F.pro
121	L	E	D	E	N	G	T	L	K	V	T	F	P	T	P	P	P	P	L	Q	F	S	P	P	L	T	K	T	G	G	CAV2F.pro
121	L	N	L	N	T	P	L	N	L	Q	N	E	R	L	S	L	N	V	S	N	P	L	K	I	A	A	D	S	L	T	OAd287.PRO

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FIGURE 17B

X A X L X L L G S X L X T L G X X X V T V X N G X P X L Q X																														Majority	
160															170										180						
151	Q	A	P	L	T	V	H	D	S	K	L	S	I	A	T	Q	G	P	L	T	V	S	E	G	K	L	A	L	Q	T	HAd5F.PRO
151	S	A	G	L	S	L	L	L	G	P	S	L	H	L	G	E	E	E	R	L	T	V	N	T	G	A	G	L	Q	I	BAV3F.pro
151	G	G	M	G	V	K	L	G	S	G	L	T	T	D	N	S	Q	A	V	T	V	Q	V	G	N	G	L	Q	L	N	PAV3F.pro
151	T	V	S	L	P	L	Q	D	S	M	Q	V	T	N	G	K	L	G	V	K	P	T	T	Y	A	P	P	L	K	K	CAV2F.pro
151	I	N	L	K	E	P	L	G	L	Q	N	E	S	L	G	L	N	L	S	D	P	M	N	I	T	P	E	G	N	L	OAd287.PRO
G X X L L T V X V G S G L T V A S X X L X A A X X S N G X X																														Majority	
190															200										210						
181	S	G	P	L	T	T	T	D	S	S	T	L	T	I	T	A	S	P	P	L	T	T	A	T	G	S	L	G	I	D	HAd5F.PRO
181	S	N	N	A	L	A	V	K	V	G	S	G	I	T	V	D	A	Q	N	Q	L	A	A	S	L	G	D	G	L	E	BAV3F.pro
181	G	E	G	Q	L	T	V	P	A	T	A	P	L	V	S	G	S	A	G	I	S	F	N	Y	S	S	N	D	F	V	PAV3F.pro
181	T	D	Q	Q	V	S	L	Q	V	G	S	G	L	T	V	I	N	E	Q	L	Q	A	V	Q	P	P	A	T	T	Y	CAV2F.pro
181	G	I	K	L	K	N	P	M	K	V	E	E	S	S	L	A	L	N	Y	K	N	P	L	A	I	S	N	D	A	L	OAd287.PRO
L X N X S X T L N X K X G L V X G X L A S T X D T L S X L X																														Majority	
220															230										240						
211	L	K	E	P	I	Y	T	Q	N	G	K	L	G	L	K	Y	G	A	P	L	H	V	T	D	D	L	N	T	L	T	HAd5F.PRO
211	S	R	D	N	K	T	V	V	K	A	G	P	G	L	T	I	T	N	Q	A	L	T	V	A	T	G	N	G	L	Q	BAV3F.pro
211	L	D	N	D	S	L	S	L	R	P	K	A	I	S	V	T	P	P	L	Q	S	T	E	D	T	I	S	L	N	Y	PAV3F.pro
211	N	E	P	L	S	K	T	D	N	S	V	S	L	Q	V	G	A	G	L	A	V	Q	S	G	A	L	V	A	T	P	CAV2F.pro
211	S	I	N	I	A	N	P	L	T	V	N	T	S	G	S	L	G	I	S	Y	S	T	P	L	R	I	S	N	N	A	OAd287.PRO
V N P F X G X X L N L T X X Q T L X X X X L X X L V X X N N																														Majority	
250															260										270						
241	V	A	T	G	P	G	V	T	I	N	N	T	S	L	Q	T	K	V	T	G	A	L	G	F	D	S	Q	G	N	M	HAd5F.PRO
241	V	N	P	E	G	Q	L	Q	L	N	I	T	A	G	Q	G	L	N	F	A	N	N	S	L	A	V	E	L	G	S	BAV3F.pro
241	S	N	D	F	S	V	D	N	G	A	L	T	L	A	P	T	F	K	P	Y	T	L	W	T	G	A	S	P	T	A	PAV3F.pro
241	P	P	P	L	T	F	T	S	P	L	E	K	N	E	N	T	V	S	L	Q	V	G	A	G	L	S	V	Q	N	N	CAV2F.pro
241	L	S	L	F	I	G	K	P	L	G	L	G	T	D	G	S	L	T	V	N	L	T	R	P	L	V	C	R	Q	N	OAd287.PRO
X L X X T P G X P L V S L Y P L L X L D V X X P L X A S X A																														Majority	
280															290										300						
271	Q	L	N	V	A	G	G	L	R	I	D	S	Q	N	R	R	L	I	L	D	V	S	Y	P	F	D	A	Q	N	Q	HAd5F.PRO
271	G	L	H	F	P	P	G	Q	N	Q	V	S	L	Y	P	G	D	G	I	D	I	R	D	N	R	V	T	V	P	A	BAV3F.pro
271	N	V	I	L	T	N	T	T	T	P	N	G	T	F	F	L	C	L	T	R	V	G	G	L	V	L	G	S	F	A	PAV3F.pro
271	A	L	V	A	T	P	P	P	P	L	T	F	A	Y	P	L	V	K	N	D	N	H	V	A	L	S	A	G	S	G	CAV2F.pro
271	T	L	A	I	N	Y	S	A	P	L	V	S	L	Q	D	N	L	T	L	S	Y	A	Q	P	L	T	V	S	D	N	OAd287.PRO

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FIGURE 17C

L X X L X G L X P L X T N S X G X L D X N Y S X X L V L T X Majority																									
310										320										330					
301	L	N	L	R	L	G	Q	G	P	L	F	I	N	S	A	H	N	L	D	I	N	Y	N	K	G
301	G	P	G	L	R	M	L	N	H	Q	L	A	V	A	S	G	D	G	L	E	V	H	S	D	T
301	L	K	S	S	I	D	L	T	S	M	T	K	K	V	N	F	I	F	D	G	A	G	R	L	Q
301	L	R	I	S	G	G	S	L	T	V	A	T	G	P	G	L	S	H	Q	N	G	T	I	G	A
301	S	L	R	L	S	L	N	S	P	L	N	T	N	S	D	G	K	L	S	V	N	Y	S	N	P
S X X X X F X X X A V L I N X T G X X D X A X X A X I X X X Majority																									
340										350										360					
331	A	S	N	N	S	K	K	L	E	V	N	L	S	T	A	K	G	L	M	F	D	A	T	A	I
331	S	H	G	L	T	F	E	N	G	A	V	R	A	K	L	G	P	G	L	G	T	D	D	S	G
331	K	G	R	F	G	F	R	S	N	D	S	V	I	E	P	T	A	A	G	L	S	P	A	W	L
331	L	K	F	E	N	N	A	I	L	A	K	L	G	N	G	L	T	I	R	D	G	A	I	E	A
331	S	N	L	T	L	S	V	K	K	P	V	M	I	N	N	T	G	N	V	D	L	S	F	T	A
D G X X L T S G N G P X X N V X I N X T X V G L D F X L T T Majority																									
370										380										390					
361	D	G	L	E	F	G	S	P	N	A	P	N	T	N	P	L	K	T	K	I	G	H	G	L	E
361	T	G	R	G	L	R	V	A	N	G	Q	V	Q	I	F	S	G	R	G	T	A	I	G	T	D
361	I	Y	P	R	N	T	S	G	S	S	L	T	S	F	V	Y	I	N	Q	T	Y	V	H	V	D
361	A	P	I	T	L	W	T	G	P	G	P	S	I	N	G	F	I	N	D	T	P	V	I	R	C
361	D	A	E	Q	L	T	L	E	T	T	E	P	L	E	V	A	D	N	A	L	K	L	K	L	G
X X X A L L X X X G S F L T X G X X X X G S K T N S S L X L Majority																									
400										410										420					
391	A	M	V	P	K	L	G	T	G	L	S	F	D	S	T	G	A	I	T	V	G	N	K	N	N
391	N	I	R	A	P	L	Q	F	S	G	P	A	L	T	A	S	L	Q	G	S	G	P	I	T	Y
391	L	S	T	N	G	Y	S	L	E	F	N	F	Q	N	M	S	F	S	A	P	F	S	T	S	Y
391	R	D	S	N	L	V	T	V	N	A	S	F	V	G	E	G	Y	R	I	V	S	P	T	Q	S
391	S	N	N	A	L	T	L	N	L	G	N	G	L	T	F	Q	Q	G	L	L	Q	I	K	T	N
X X X X X S P X X X X X X N X X X X L T L X X L X F G X N Majority																									
430										440										450					
421	W	T	T	P	A	P	S	P	N	C	R	L	N	A	E	K	D	A	K	L	T	L	V	L	T
421	T	F	G	L	S	I	G	P	G	M	V	D	Q	N	R	L	Q	V	N	P	G	A	G	L	V
421	V	P	R	R	T	T	H	R	P	R	H	G	P	F	S	L	R	E	R	R	H	L	F	Q	L
421	I	M	E	F	D	Q	F	G	Q	L	M	S	T	G	N	I	N	S	T	T	T	W	G	E	K
421	N	A	S	G	E	L	S	T	A	T	K	Q	G	T	I	T	V	N	F	L	S	T	T	P	I

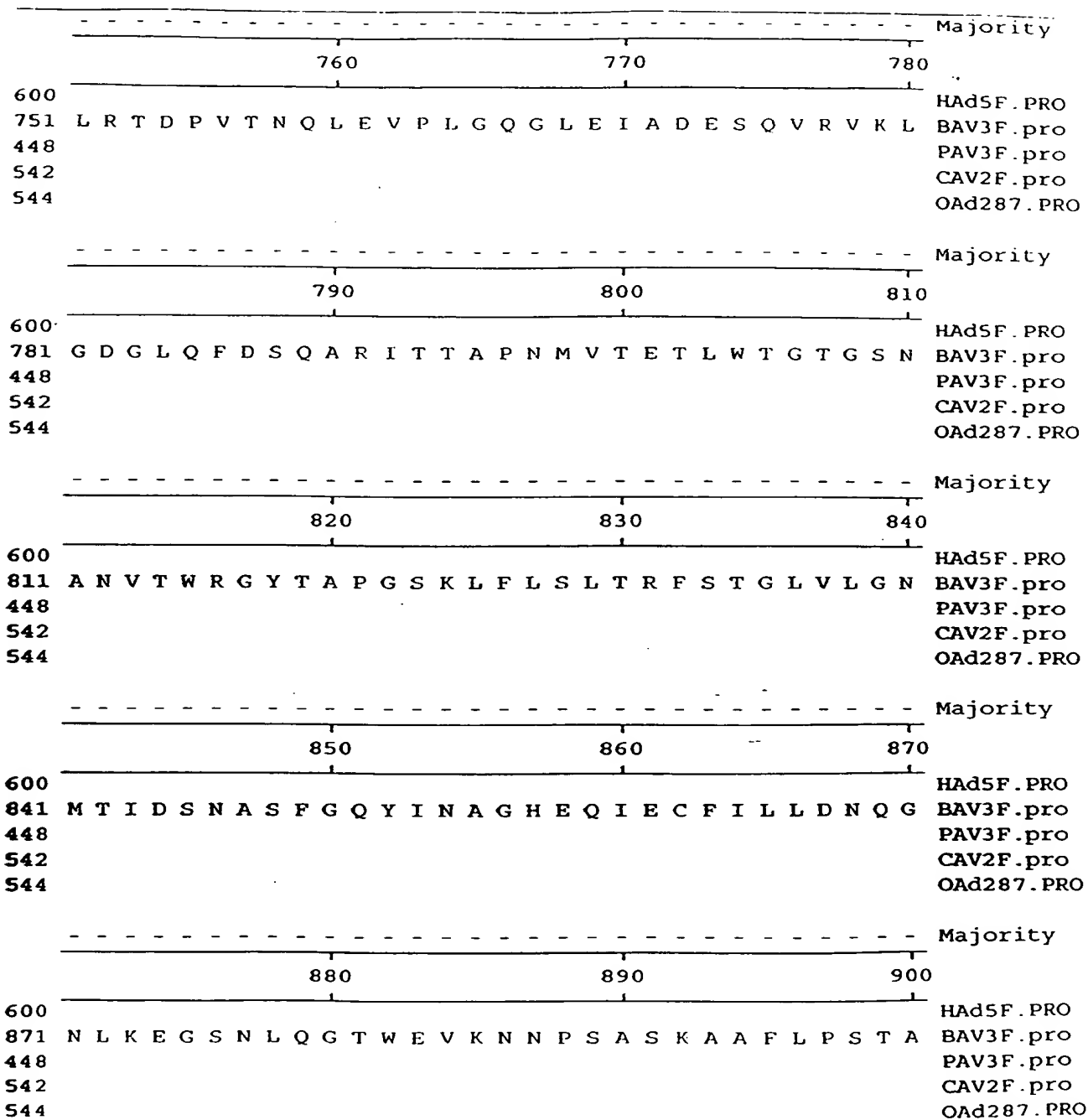
	I L X T X X A X X X K L S X X X I S X X P A X L I X R X	Majority
	460 470 480	
451	I L A T V S V L A V K G S L A P I S G T V Q S A H L I I R F	HAd5F.PRO
451	N L V P N L A D P L A I S D S K I S L S L G P G L T Q A S N	BAV3F.pro
448		PAV3F.pro
451	T V Q P R P S H T W K L C M P N R E V Y S T P A A T I S R C	CAV2F.pro
451	I I P T T V A F I Y I L S G T Q F T P Q S P V T S L G F Q P	OAd287.PRO
	X L D X X L X N G L X X X X X X V X X I X G X X X X V X X Y	Majority
	490 500 510	
481	D E N G V L L N N S F L D P E Y W N F R N G D L T E G T A Y	HAd5F.PRO
481	A L T L S L G N G L E F S N Q A V A I K A G R G L R F E S S	BAV3F.pro
448		PAV3F.pro
481	G L D S I A V D G A P S R S I D C M L I I N K P K G V A T Y	CAV2F.pro
481	P Q D F L D F F V L S P F V T S V T Q I V G N D V K V I G L	OAd287.PRO
	T X A X X F S X X X X X X X X X L X K T X X X N X X X X X E	Majority
	520 530 540	
511	T N A V G F M P N L S A Y P K S H G K T A K S N I V S Q V Y	HAd5F.PRO
511	S Q A L E S S L T V G N G L T L T D T V I R P N L G D G L E	BAV3F.pro
448		PAV3F.pro
511	T L T F R F L N F N R L S G G T L F K T D V L T F T Y V G E	CAV2F.pro
511	T I S K N Q S T I T M K F T S P L A E N V P V S M F T A H Q	OAd287.PRO
	X R - - - - -	Majority
	550 560 570	
541	L N G D K T K P V T L T I T L N G T Q E T G D T T P S A Y S	HAd5F.PRO
541	V R D N K I I V K L G A N L R F E N G A V T A G T V N P S A	BAV3F.pro
448		PAV3F.pro
541	N Q	CAV2F.pro
541	F R Q .	OAd287.PRO
	- - - - -	Majority
	580 590 600	
571	M S F S W D W S G H N Y I N E I F A T S S Y T F S Y I A Q E	HAd5F.PRO
571	P E A P P T L T A E P P L R A S N S H L Q L S L S E G L V V	BAV3F.pro
448		PAV3F.pro
542		CAV2F.pro
544		OAd287.PRO

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FIGURE 17E

					Majority
		610	620	630	
600					HAd5F.PRO
601	H N N A L A L Q L G D G M E V N Q H G L T L R V G S G L Q M				BAV3F.pro
448					PAV3F.pro
542					CAV2F.pro
544					OAd287.PRO
					Majority
		640	650	660	
600					HAd5F.PRO
631	R D G I L T V T P S G T P I E P R L T A P L T Q T E N G I G				BAV3F.pro
448					PAV3F.pro
542					CAV2F.pro
544					OAd287.PRO
					Majority
		670	680	690	
600					HAd5F.PRO
661	L A L G A G L E L D E S A L Q V K V G P G M R L N P V E K Y				BAV3F.pro
448					PAV3F.pro
542					CAV2F.pro
544					OAd287.PRO
					Majority
		700	710	720	
600					HAd5F.PRO
691	V T L L L G P G L S F G Q P A N R T N Y D V R V S V E P P M				BAV3F.pro
448					PAV3F.pro
542					CAV2F.pro
544					OAd287.PRO
					Majority
		730	740	750	
600					HAd5F.PRO
721	V F G Q R G Q L T F L V G H G L H I Q N S K L Q L N L G Q G				BAV3F.pro
448					PAV3F.pro
542					CAV2F.pro
544					OAd287.PRO

FIGURE 17F



----- Majority -----	
910	920
930	
600	HAd5F.PRO
901 L Y P I L N E S R G S L P G K N L V G M Q A I L G G G G T C	BAV3F.pro
448	PAV3F.pro
542	CAV2F.pro
544	OAd287.PRO
----- Majority -----	
940	950
960	
600	HAd5F.PRO
931 T V I A T L N G R R S N N Y P A G Q S I I F V W Q E F N T I	BAV3F.pro
448	PAV3F.pro
542	CAV2F.pro
544	OAd287.PRO
----- Majority -----	
970	
600	HAd5F.PRO
961 A R Q P L N H S T L T F S Y W T	BAV3F.pro
448	PAV3F.pro
542	CAV2F.pro
544	OAd287.PRO